

# 1992 Annual Report

## Vital Statistics of Massachusetts



Massachusetts Department of Public Health  
Public Document No. 1

601500  
6-57



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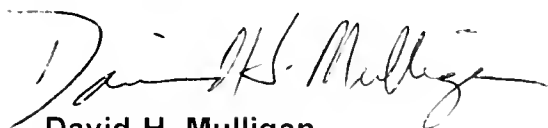
December 1994

To the Honorable Senate and  
House of Representatives:

We have the honor to submit as required by Chapter 111, Section 2 of the General Laws, the one hundred fifty-first annual report on statistics of births, deaths, marriages and divorces in Massachusetts for calendar year 1992.

This is the twenty-ninth ANNUAL REPORT OF VITAL STATISTICS published by the Department of Public Health and is intended to assist in the development of policy and programmatic initiatives within the Department, as well as to provide State officials and agencies, and the general public, with valuable statistical information.

Sincerely,



David H. Mulligan  
Commissioner





**ANNUAL REPORT  
VITAL STATISTICS OF MASSACHUSETTS  
PUBLIC DOCUMENT #1  
1992**

**THE COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF PUBLIC HEALTH**

**WILLIAM F. WELD, GOVERNOR  
CHARLES D. BAKER, SECRETARY OF HEALTH AND HUMAN SERVICES  
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**DECEMBER 1994**



## ACKNOWLEDGEMENTS

This publication of the 1992 ANNUAL REPORT OF VITAL STATISTICS is the result of the combined efforts of all data providers, including the 351 city and town clerks, hospital personnel, physicians, funeral directors, probate courts, clinics, and Department of Public Health personnel. We gratefully acknowledge the assistance provided by all data providers, without whose efforts there would be no vital statistics.

Department of Public Health staff most significantly involved in the production of the 1992 ANNUAL REPORT OF VITAL STATISTICS include:

Bruce Cohen, Christine Payne, and Raymond Vezina, Bureau of Health Statistics, Research and Evaluation: assistance and technical data from Advance Data: Births 1992 and Advance Data: Deaths 1992;

Robert Danley, Bureau of Health Statistics, Research and Evaluation: population statistics;

Michael Healey, Division of Data Processing: data file management and vital events series printouts;

Duke Rhoden, Bureau of Health Statistics, Research and Evaluation: supervision of computer graphics and special table production, with programming by Robert S. Woodburn and Howard H. Wong;

Dennis Sterzin, Graphic Design Center: graphic layout and assistance;

Karin Barrett, Data Quality Assurance Coordinator, and Charlene Zion, Information Officer, Registry of Vital Records and Statistics: coordination of the hospital query program for birth certificate data, specialized data programming, and assistance in developing specialized table production;

Phyllis Zeuli, Assistant Registrar for Statistics: supervision of data collection, coding and editing, with technical assistance from Maureen McKean (Statistics Unit supervisor) and Robert Coffin (Chief Nosologist).

The joint efforts of all the staff of the Registry of Vital Records and Statistics are necessary to produce the data contained in this publication. Special acknowledgement is made to the following Registry supervisors:

Alan Goldin, Director of Automation, who is responsible for the installation and supervision of the Automated Vital Statistics System (AVSS) and all computer-based systems in the Registry office;

James Orseno, Operations Unit Supervisor, who is responsible for all printing and mailing of forms;

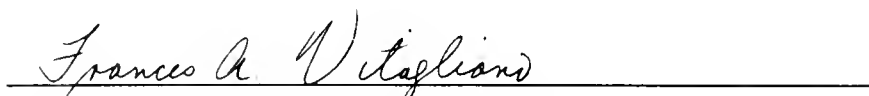
Phyllis Rotman, Registration Unit Supervisor, who is responsible for coordination with cities and towns to produce the data in a timely fashion;

Lisa Varnerin, Records Unit Supervisor, who is responsible for maintaining all records and issuing certified copies.

The 1992 ANNUAL REPORT OF VITAL STATISTICS has been compiled and produced under the general supervision and direction of:

Daniel J. Friedman, Ph.D., Assistant Commissioner  
Bureau of Health Statistics, Research and Evaluation

Elaine B. Trudeau, Registrar of Vital Records and Statistics  
Registry of Vital Records and Statistics

A handwritten signature in cursive script, reading "Frances A. Vitagliano", is positioned above a solid horizontal line.

Frances A. Vitagliano, Assistant Registrar  
Editor



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## INTRODUCTION

The **ANNUAL REPORT OF VITAL STATISTICS** (Public Document No. 1) has been continuously published since 1842. This is the 29th edition produced by the Department of Public Health. This report, required under the provisions of Chapter 111, section 2, of the Massachusetts General Laws, tabulates data on Massachusetts births, fetal deaths, deaths, marriages, divorces, and population for calendar year 1992. Approximately 2,000 copies of the report are distributed to federal, state, and local governmental agencies, private and public health planners and researchers, students, and members of the general public. The report provides its users with an overview of the health status of the Massachusetts population.

Vital statistics data may be tabulated either in terms of resident data or occurrence data. Resident data include all events which occur to residents of the Commonwealth, wherever the events occur. Occurrence data include all those events which occur within the state, including those which occur to out-of-state residents. There is an interstate exchange of copies of birth, death and fetal death records among the fifty states, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and all Canadian provinces. These records are exchanged for statistical purposes only, for events which occur in states other than where the individual resides. This exchange allows each of the states and provinces to track the births and deaths of their residents. The majority of the data presented in this report for births and deaths is based on resident data. Marriage and divorce data, however, only reflect events which occurred within the Commonwealth.

## REGISTRATION

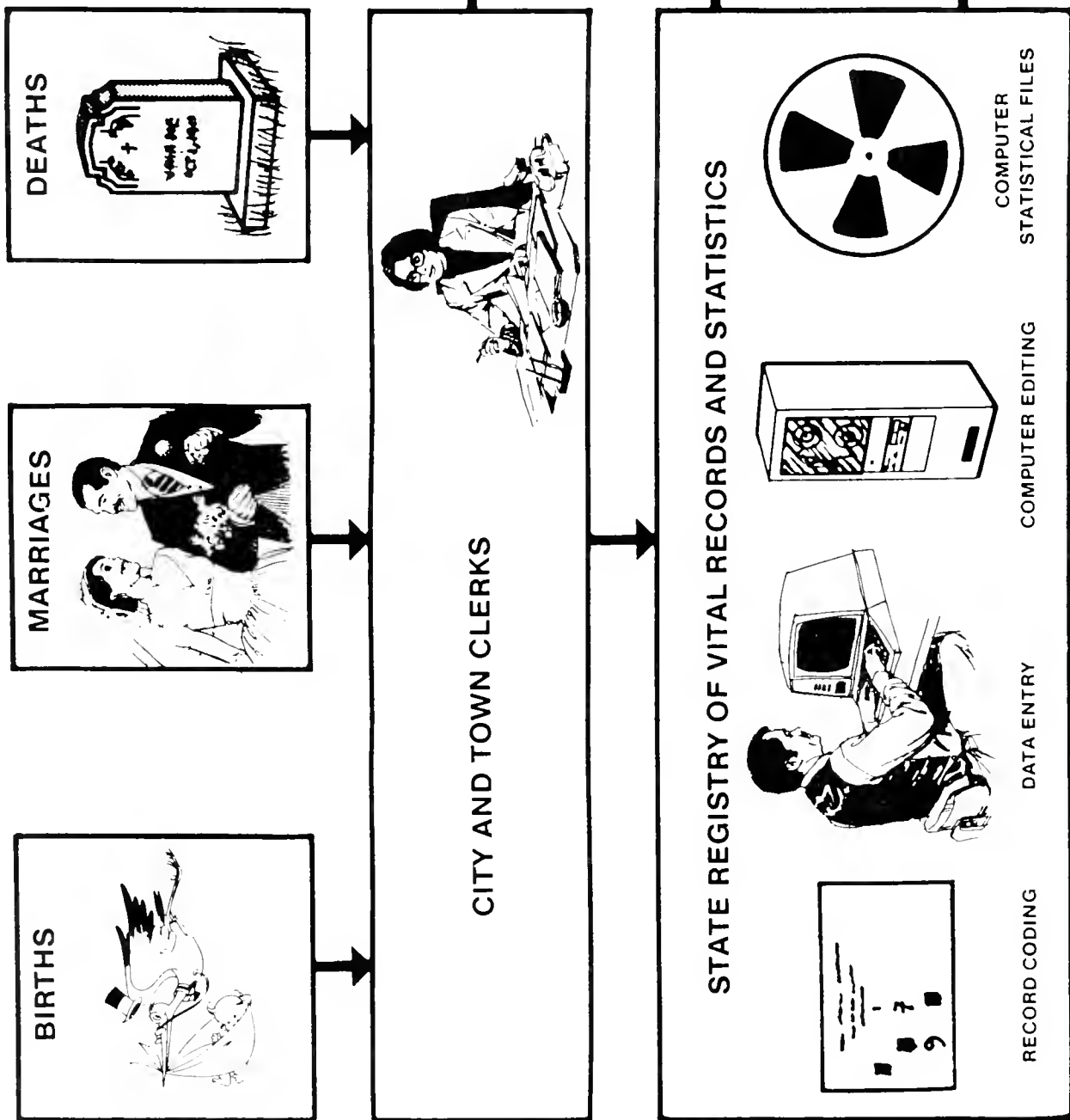
The first government-operated system of vital events registration anywhere in the world began in the Commonwealth of Massachusetts in 1639 under colonial administration. Prior to that time, in countries such as England with a vital registration system, the responsibility for the registration of vital events had been placed on church officials. The Massachusetts system mandated the registration of vital events by the clerks of the communities. In 1842, the Massachusetts legislature established the first statewide coordination for the registration of these events by requiring that copies of the events registered in the local cities and towns be sent to the Secretary of State. The first year of collection was designated for 1841. The collection of data and the production of the **ANNUAL REPORT OF VITAL STATISTICS** has continued since then. In 1976, the responsibility for the state coordination was transferred to the Department of Public Health. This was mandated in order to rejoin the statistical and registration functions which had been separated by the 1964 transfer of the statistical function to the Department of Public Health. With the exception of the administrative location of the State Registry, the actual mechanics of the system have changed remarkably little over the years.

With limited exceptions, most vital records in Massachusetts are open public records. The figure on the next page illustrates the registration process in Massachusetts. For open birth and death records, there is a triple registration process in Massachusetts. The event is first recorded in the city or town where the event occurred. The clerk of that community is then required to forward a certified copy of the record to both the community where the person resided at the time of the event and to the State Registry. Certified copies of the records may be issued from local or state records. If the record is a restricted record, such as those of out-of-wedlock births, the registration occurs only in the community where the event occurred and in the state office.

# The Vital Records and Statistics Process

PRODUCT

PROCESS





In addition to receiving a legal copy of each birth record from the city or town in which the birth occurred, the State Registry also receives a confidential copy of the birth record directly from the hospital or birth center where the birth occurred. This copy includes confidential medical information in addition to the legal information. It is this copy of the record which is processed to produce the statistical information on births contained in this report.

Since 1986, the State Registry has developed a program of direct electronic transmission of birth records from hospitals. The system used in Massachusetts is called the Automated Vital Statistics System (AVSS). It was developed at the University of California, Santa Barbara. Almost 90 percent of all birth records are now received through this method. AVSS has contributed to reducing processing time at both the hospital and the State Registry, while the built-in edits of the system increase the quality of the data.

Anyone wishing to be married in the Commonwealth may receive a marriage license from any of the 351 cities or towns in the state, regardless of residence or where the marriage is to take place in the Commonwealth. The community issuing the license is required to send an attested copy of the marriage record to the State Registry.

The process for creating death certificates is the most complex of all vital records. Complete and accurate death records are dependent upon the following individuals: 1.) Certifier, who not only initiates the death registration process but also determines the cause of death as well as the place, time and date of death; 2.) Funeral Director, who plays the role of facilitator in the death registration process and adds the personal data concerning the decedent, which are supplied by an informant; 3.) Burial Agent, who both issues the permit that allows the chosen disposition to take place and serves as the initial acceptor of the death certificate for official registration; and, 4.) City or Town Clerk, who records the death certificate, issues certified copies of same and forwards a copy of the death record to the Registry of Vital Records and Statistics and other communities as required by law.

The Registry of Vital Records and Statistics receives directly from hospitals or physicians the fetal death reports for fetuses of either twenty or more weeks gestation or weighing at least 350 grams. There are no local filings of fetal death reports.

Abstracts of divorces granted are also sent directly to the State Registry from the Registers of Probate from each county probate court.

#### STATISTICAL PROCESSING AND TABULATING

The records received in the State Registry are carefully examined for legal errors and inconsistencies. As part of the computerization process, errors and inconsistencies are queried and corrected. A computerized hospital query program is part of the AVSS program. The Registry also has a data quality assurance program that includes on-site instruction for clerks and hospital personnel who have reporting difficulties, and training for all groups involved in the data collection process.

Annually, when registration is considered as complete as possible, statistics are aggregated for presentation in this report and in special studies, and for program monitoring and surveillance.

Anyone using statistical information for comparisons over time should be aware of inconsistencies and changing conventions for classification and coding. This is particularly important when using cause of death information. Codes used for classifying cause of death in this report are based on the Ninth Revision of the International Classification of Diseases, World Health Organization. Classification of variables such as race, nativity, and marital status may also differ over time.

It is hoped that this report will be useful to a wide range of health data users in the Commonwealth, as well as to educational planners, demographers, and historians. Questions concerning these data and requests for more detailed findings should be directed to:

Massachusetts Department of Public Health  
Bureau of Health Statistics, Research and Evaluation  
150 Tremont Street  
Boston, Massachusetts 02111  
(617) 727-DATA

# ***VITAL EVENTS***



## **SECTION A**

### **VITAL EVENTS**

#### **HIGHLIGHTS**

##### **BIRTHS**

- In 1992, there were 87,202 births to Massachusetts residents.
- Births decreased by 1.1% from 1991 to 1992.
- The 1992 Massachusetts birth rate per 1,000 residents was 14.4, a decrease of 1.4% from the birth rate of 14.6 in 1991.
- Massachusetts' 1992 birth rate of 14.4 per 1,000 residents was below the 1992 U.S. rate of 16.0.
- The most births occurred in July (8.8%--7,707); the fewest occurred in February (7.7%--6,680).

##### **DEATHS**

- In 1992, 53,804 Massachusetts residents died.
- The number of deaths increased by 1.5% from 1991 to 1992.
- The 1992 Massachusetts death rate of 8.9 deaths per 1,000 residents was a slight increase from the 1991 Massachusetts death rate of 8.8 deaths per 1,000 residents. The 1992 U.S. death rate of 8.5 deaths per 1,000 residents decreased from the 1991 U.S. death rate of 8.6 deaths per 1,000 residents. The 1992 age-adjusted death rate in Massachusetts (463.2) was lower than the U.S. age-adjusted death rate (504.9).
- The most deaths occurred in January (10.2%--5,496); the fewest occurred in September (7.6%--4,081).

##### **FETAL DEATHS**

- There were 484 reportable fetal deaths to Massachusetts residents in 1992.
- Reportable fetal deaths decreased by 6.6% from 1991 to 1992. The fetal death rate also decreased from the 1991 rate of 5.8 per 1,000 live births and fetal deaths to a rate of 5.5 in 1992.

## **INFANT DEATHS**

- In 1992, 569 infant deaths (less than 1 year of age) occurred to Massachusetts residents.
- The 1992 Massachusetts infant mortality rate remained the same as the 1991 infant mortality rate--6.5 deaths per 1,000 live births.
- The black infant mortality rate increased from 13.8 in 1991 to 15.8 in 1992.
- The Massachusetts 1992 infant mortality rate of 6.5 per 1,000 live births was 23.5% below the U.S. rate of 8.5.

## **MARRIAGES**

- In 1992, there were 43,228 marriages in Massachusetts.
- The number of marriages in Massachusetts decreased by 3.1% from 1991 to 1992. Nationally, the number of marriages decreased by 3.8% during the same period.
- The 1992 Massachusetts rate of 7.1 marriages per 1,000 population was below the U.S. rate of 9.3.
- The most marriages occurred in October (13.3%--5,763); the fewest occurred in January (3.0%--1,307).

## **DIVORCES**

- In 1992, 15,411 divorces were granted in Massachusetts.
- Divorces in Massachusetts increased by 2.8% from 1991 to 1992.
- The 1992 Massachusetts divorce rate of 2.5 divorces per 1,000 population was below the U. S. rate of 4.8.
- The largest number of divorces was finalized in January (1,457--9.5%), and the fewest in November (1,135--7.4%).

## **NATURAL INCREASE**

- The rate of natural increase in the Massachusetts resident population decreased to 5.5 per 1,000 residents in 1992 from a rate of 5.8 in 1991.
- The 1992 U.S. natural increase rate of 7.4 remains above that of Massachusetts.

The Vital Events section provides basic information on all vital events. In addition to the information highlighted above, this section contains summary birth and death data by city, town and county. More detailed information is contained in the sections on the individual events.

## DEFINITIONS AND RATES IMPORTANT FOR THIS SECTION INCLUDE:

### FETAL DEATH

A fetal death is a death prior to the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of the pregnancy; the death is indicated by the fact that after such separation the fetus does not breath or show any other evidence of life, such as the beating of the heart, pulsation of the umbilical cord, or definite movement of the voluntary muscles.

Massachusetts law requires that fetal deaths of 20 or more weeks gestation or weighing at least 350 grams be reported; therefore, the fetal deaths referred to in this report are of that gestational age or weight.

### MISER

The Massachusetts Institute for Social and Economic Research. This research institute, located at the University of Massachusetts in Amherst, produces the official population estimates and projections for the Commonwealth.

### NATURAL INCREASE

The difference between the number of resident live births and the number of resident deaths.

### OCCURRENCE

Occurrence data reflect where the event took place without regard to residence. In Massachusetts, place will be one of 351 cities or towns.

### RESIDENCE

The usual place of residence as reported by the mother (for births) or the informant (for deaths). An infant's residence is considered that of the mother. While occurrence data include only events that occurred within Massachusetts, residence data for births and deaths include those which may or may not have occurred within Massachusetts.

## CRUDE RATES OF VITAL EVENTS

BIRTH RATE	$\frac{\text{No. of Resident Live Births}}{\text{Total Resident Population}} \times 1,000$
FETAL MORTALITY RATE	$\frac{\text{No. of Resident Fetal Deaths}}{\text{Resident Live Births} + \text{Resident Fetal Deaths}} \times 1,000$
INFANT MORTALITY RATE	$\frac{\text{No. of Resident Deaths <1 Year}}{\text{Resident Live Births}} \times 1,000$

NEONATAL MORTALITY RATE	$\frac{\text{No. of Resident Deaths <28 Days}}{\text{Resident Live Births}} \times 1,000$
DEATH RATE	$\frac{\text{No. of Resident Deaths}}{\text{Total Resident Population}} \times 1,000$
MARRIAGE RATE	$\frac{\text{No. of Occurrence Marriages}}{\text{Total Resident Population}} \times 1,000$
DIVORCE RATE	$\frac{\text{No. of Occurrence Divorces}}{\text{Total Resident Population}} \times 1,000$



**TABLE A-1  
SELECTED FACTS IN VITAL STATISTICS  
MASSACHUSETTS: 1992**

**BIRTH**

Ages of Mothers: 12 - 52 years

Ages of Fathers: 13 - 92 years

Sets of Twins: 1,174

Sets of Triplets: 43

Sets of Quadruplets: 1

Most Births Occurred on: June 30, 1992 (307 births)

Fewest Births Occurred on: September 6, 1992 (161 births)

Highest # of Births at: Brigham and Women's Hospital (8,893 births)

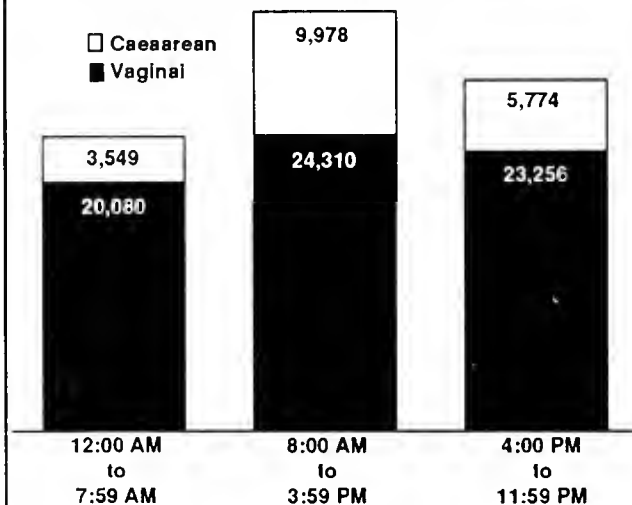
Lowest # of Births at: Nantucket Cottage Hospital (75 births)

**Ten Most Popular Names For Babies**

<i>Boys' Names</i>	<i>Number</i>	<i>Girls' Names</i>	<i>Number</i>
Michael	1,763	Jessica	846
Matthew	1,238	Ashley	792
Christopher	1,173	Sarah	726
Nicholas	1,068	Samantha	710
Daniel	925	Amanda	677
Joseph	880	Nicole	624
Ryan	879	Emily	616
John	861	Stephanie	563
Andrew	845	Jennifer	494
James	724	Elizabeth	471

**Number of Births Occurring at Specified Times  
of Day when Delivery Method Is Known\***

□ Cesarean  
■ Vaginal



\* Unknown delivery methods = 237  
Unknown times of birth = 18

**DEATH**

Male Decedents 100 Years and Older: 59

Female Decedents 100 Years and Older: 402

Most Deaths Occurred on: January 1, 1992 (217 deaths)

Fewest Deaths Occurred on: September 5, 1992 (111 deaths)

Month Most Suicides Occurred: February (56)

Month Most Homicides Occurred: December (31)

Month Most Motor Vehicle Deaths Occurred: June (56)

Weekday Most Deaths Occurred: Wednesday (7,935 deaths)

Weekday Fewest Deaths Occurred: Monday (7,485 deaths)

**MARRIAGE**

Ages of Brides: 14 - 77 years

Ages of Grooms: 15 - 77 years

Most Popular Month for Marriages: October (5,763 marriages)

Least Popular Month for Marriages: January (1,307 marriages)

Greatest Age Difference When Bride Older than Groom: 31 years

Greatest Age Difference When Groom Older than Bride: 46 years

**DIVORCE**

Length of Marriages Involved in Divorces:  
<1 Year to 57 Years of Marriage

Most Common Length of Marriage Prior to Divorce: 4 Years

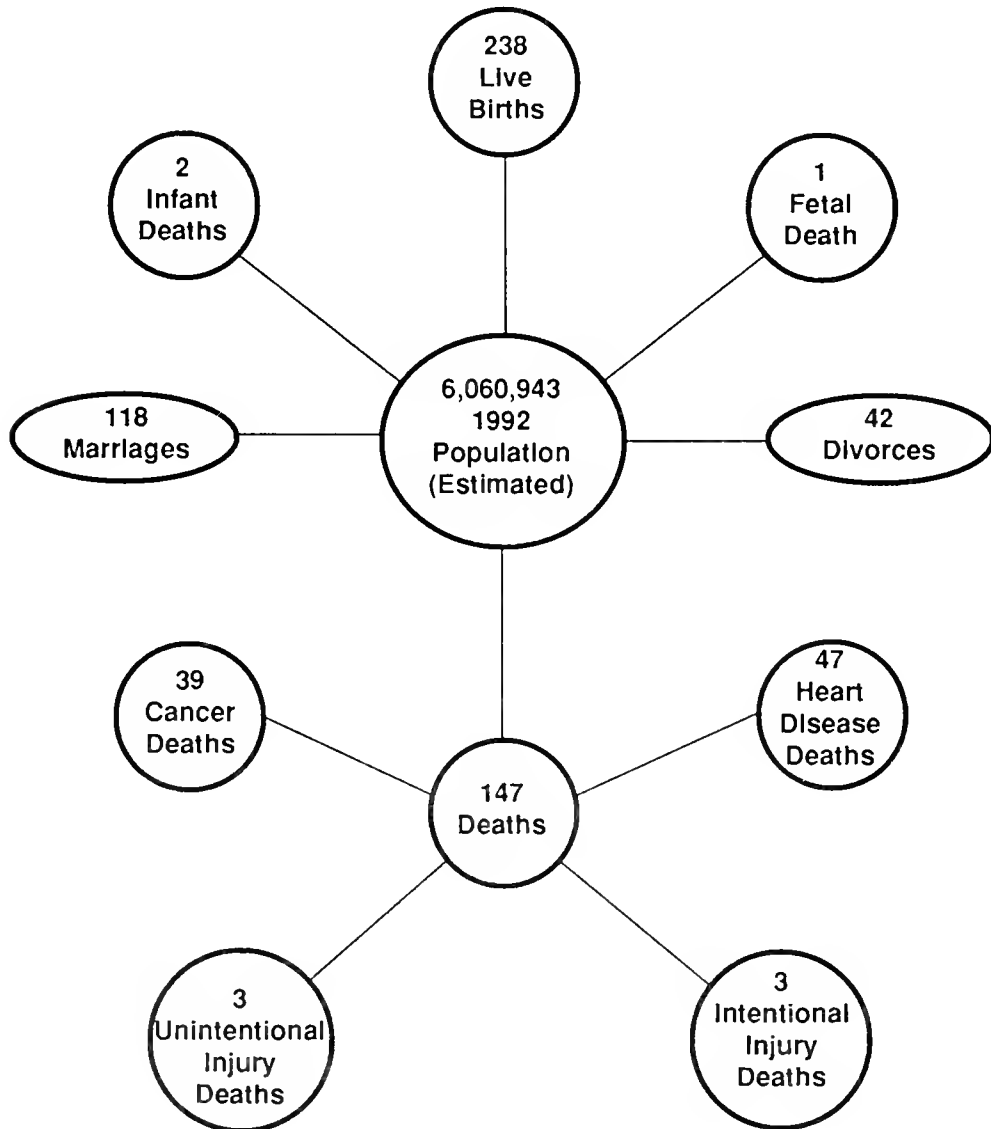
Month Most Divorces Granted: January (1,457 divorces)

Month Fewest Divorces Granted: November (1,135 divorces)

FIGURE A-1

## 1992 MASSACHUSETTS DAILY VITAL EVENTS

Each day Massachusetts residents had approximately:



**TABLE A-2**  
**NUMBER AND CRUDE RATES OF VITAL EVENTS**  
**MASSACHUSETTS AND UNITED STATES**  
**1991-1992**

VITAL EVENT	MASSACHUSETTS					UNITED STATES				
	1992		1991		% of Rate Change	1992 <sup>1</sup>		1991 <sup>2</sup>		% of Rate Change
	Number	Rate	Number	Rate		Number	Rate	Number	Rate	
BIRTHS	87,202	14.4	88,176	14.6	- 1.4	4,084,000	16.0	4,110,907	16.3	- 1.8
FETAL DEATHS	484	5.5	518	5.8	- 5.2	NA <sup>3</sup>	NA	NA	NA	NA
TOTAL DEATHS	53,804	8.9	53,010	8.8	+ 1.1	2,177,000	8.5	2,169,518	8.6	- 1.2
Infant Deaths	569	6.5	576	6.5	0.0	34,400	8.5	36,766	8.9	- 4.5
Neonatal Deaths	415	4.8	400	4.5	+ 6.7	21,860	5.4	22,978	5.6	- 3.6
MARRIAGES	43,228	7.1	44,621	7.4	- 4.1	2,362,000	9.3	2,371,000	9.4	- 1.1
DIVORCES	15,411	2.5	14,987	2.5	0.0	1,215,000	4.8	1,187,000	4.7	+ 2.1

**NOTES:**

Neonatal and infant deaths are included in total deaths; neonatal deaths are included in infant deaths; fetal deaths are excluded from total deaths.  
 Figures for marriages and divorces reflect occurrence, not residence.  
 The rates for live births, total deaths, marriages and divorces are per 1,000 population.  
 Rates for infant and neonatal deaths are per 1,000 live births.  
 Rates for fetal deaths are per 1,000 live births and fetal deaths.

<sup>1</sup> All United States numbers and rates for 1992 are provisional

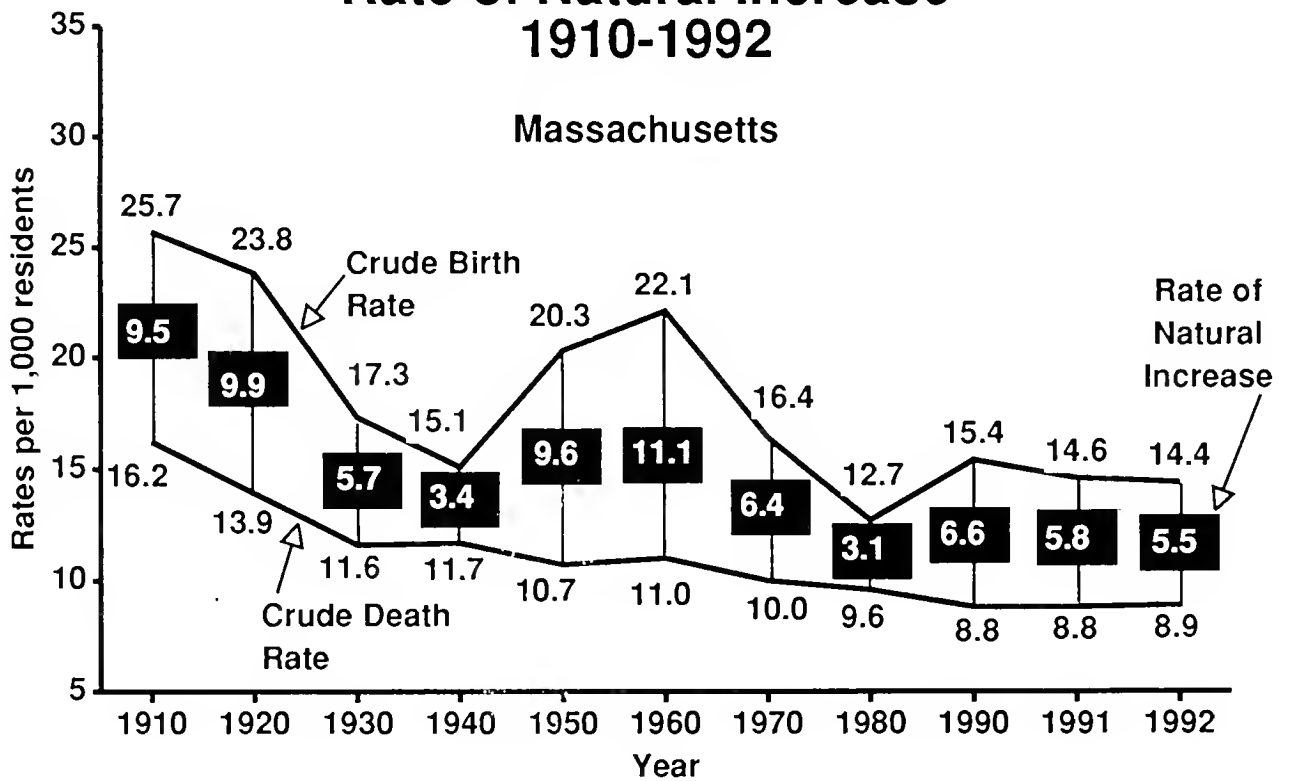
<sup>2</sup> United States numbers and rates for 1991 are provisional for Marriages and Divorces, all others are final.

<sup>3</sup> Not Available

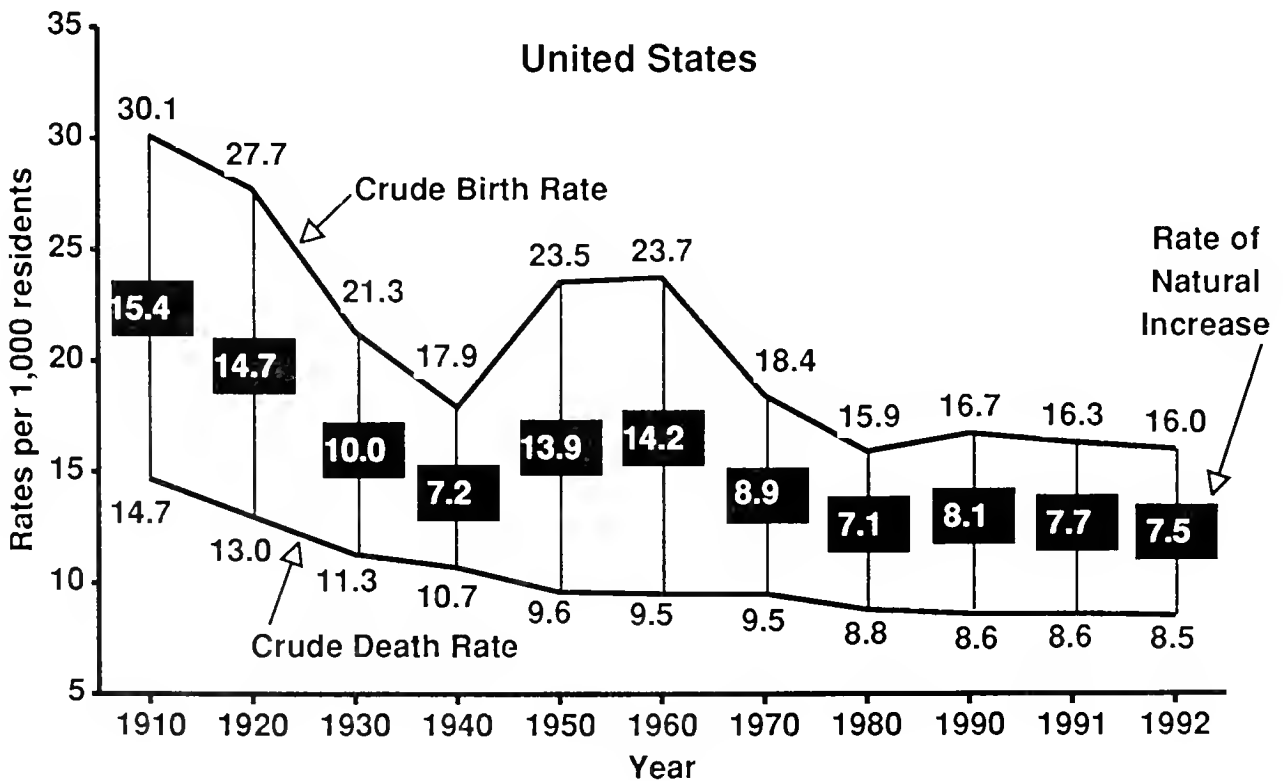
Figure A-2

# Rate of Natural Increase 1910-1992

## Massachusetts



## United States



**TABLE A-3**  
**MASSACHUSETTS RESIDENT BIRTHS AND DEATHS**  
**WITH RESULTANT NATURAL INCREASE**  
**1900-1992**

<b>YEAR</b>	<b>BIRTHS</b>	<b>DEATHS</b>	<b>NATURAL INCREASE</b>	<b>RATE/ 1,000 RESIDENTS</b>
1900	73,386	51,156	22,230	7.9
1905	75,022	50,486	24,536	8.2
1910	86,539	54,407	32,132	9.5
1915	93,155	53,131	40,024	10.8
1920	91,859	53,632	38,227	9.9
1925	86,014	51,890	34,124	8.2
1930	73,690	49,503	24,187	5.7
1935	62,416	49,634	12,782	2.9
1940	65,369	50,698	14,671	3.4
1945	76,455	50,763	25,692	5.7
1950	95,619	50,359	45,260	9.6
1955	109,610	53,386	56,224	11.6
1960	114,018	56,560	57,458	11.2
1965	100,262	58,853	41,409	7.8
1970	93,582	56,944	36,638	6.4
1975	68,070	53,708	14,362	2.5
1980	72,591	54,934	17,657	3.1
1981	73,930	52,813	21,117	3.7
1982	75,749	52,867	22,882	4.0
1983	76,031	54,150	21,881	3.8
1984	78,197	55,189	23,008	4.0
1985	81,781	55,597	26,184	4.5
1986	82,168	55,860	26,308	4.5
1987	84,345	55,562	28,783	4.9
1988	88,047	56,407	31,640	5.4
1989	91,314	53,748	37,566	6.4
1990	92,461	53,008	39,453	6.6
1991	88,176	53,010	35,166	5.8
1992	87,202	53,804	33,398	5.5

**TABLE A-4  
VITAL EVENTS BY MONTH  
MASSACHUSETTS RESIDENTS  
1992**

TOTALS		BIRTHS	FETAL DEATHS <sup>1</sup>	DEATHS	Infant Deaths <sup>2</sup>	Neonatal Deaths	MARRIAGES	DIVORCES
		87,202	484	53,804	569	415	43,228	15,411
JANUARY	# Rank	6,992 9	44 3	5,496 1	46 6	33 7	1,307 12	1,457 1
FEBRUARY	# Rank	6,680 12	34 11	4,659 3	46 6	35 6	2,350 9	1,176 11
MARCH	# Rank	7,643 4	42 5	4,637 4	56 2	42 3	1,883 11	1,248 9
APRIL	# Rank	7,346 5	40 8	4,323 8	44 9	27 10	2,639 8	1,215 10
MAY	# Rank	7,704 2	41 7	4,479 6	54 3	40 4	5,404 3	1,268 6
JUNE	# Rank	7,684 3	45 1	4,164 9	48 5	43 2	5,324 4	1,325 5
JULY	# Rank	7,707 1	41 7	4,154 10	41 10	27 10	3,211 6	1,416 2
AUGUST	# Rank	7,320 6	29 12	4,091 11	40 11	25 12	5,005 5	1,336 3
SEPTEMBER	# Rank	7,312 7	44 3	4,081 12	45 8	32 8	5,484 2	1,249 8
OCTOBER	# Rank	7,175 8	39 10	4,523 5	61 1	46 1	5,763 1	1,255 7
NOVEMBER	# Rank	6,740 11	40 8	4,360 7	51 4	37 5	2,857 7	1,135 12
DECEMBER	# Rank	6,899 10	45 1	4,837 2	37 12	28 9	2,001 10	1,331 4

<sup>1</sup> Fetal deaths are not included in BIRTHS or DEATHS.

<sup>2</sup> Infant deaths and neonatal deaths are included in total resident deaths; neonatal deaths are included in infant deaths.

TABLE A-4A  
VITAL EVENTS BY COMMUNITY  
1992

COMMUNITY	POPULATION (1)	LIVE BIRTHS		DEATHS		INFANT DEATHS		MARRIAGES		RESIDENT NATURAL INCREASE
		OCCURRENCE :	RESIDENT :	OCCURRENCE :	RESIDENT :	TOTAL :	NEONATAL (2)	LICENSES : ISSUED : (3)	OCCURRENCE (4)	
STATE TOTAL	6060943	88726	87202	54645	53804	569	415	43228	43228	33398
ABINGTON	13775	0	224	56	112	0	0	88	166	112
ACION	18122	1	265	70	99	0	0	123	96	166
ACUSHNET	9572	0	99	17	75	0	0	51	47	166
ADAMS	9449	2	117	33	139	0	0	66	70	-22
AGAWAM	27604	1	337	178	251	2	1	197	246	86
ALFORD	424	0	3	4	1	0	0	2	2	2
AMESBURY	15233	1	253	156	130	3	3	120	97	123
AMHERST	34851	2	169	62	114	1	1	140	155	55
ANDOVER	29091	1	372	98	205	1	0	200	265	167
ARLINGTON	44213	4	555	351	456	2	1	312	205	99
ASHBURNHAM	5667	1	79	6	39	0	0	15	21	40
ASHBY	2974	0	46	5	16	1	1	9	14	30
ASHFIELD	1775	1	26	8	13	2	2	10	17	13
ASHLAND	12503	0	246	12	68	2	0	77	61	178
ATHOL	11547	3	154	130	110	3	1	86	61	44
ATTLEBORO	38063	914	682	452	341	3	2	316	266	341
AUBURN	14956	0	184	32	157	0	0	123	103	27
AVON	4658	0	44	8	41	0	0	43	32	3
AYER	6882	1	239	193	72	3	2	174	134	167
BARNSTABLE	42438	1210	550	894	436	3	2	337	472	114
BARRE	4755	1	65	11	33	1	1	25	34	32
BECKET	1700	1	26	4	10	0	0	1	6	16
BEDFORD	13101	0	238	192	128	0	0	112	116	110
BELCHERTOWN	11173	2	194	18	66	2	2	63	44	128
BELLINGHAM	15187	2	244	14	75	2	2	108	89	169
BELMONT	24575	2	278	87	237	0	0	261	186	41
BERKLEY	4427	0	73	7	19	1	0	12	16	54
BERLIN	2312	0	31	5	12	1	0	16	14	19
BERNARDSTON	2068	0	18	2	17	1	1	12	18	1
BEVERLY	38101	2635	538	659	402	6	5	312	287	136
BILLERICA	38399	1	558	83	233	2	2	264	223	325
BLACKSTONE	8222	0	140	17	45	0	0	46	41	95

(1) POPULATION DATA ARE INTERPOLATIONS OF THE 1990 U.S. CENSUS AND MISER 1995 ESTIMATES

(2) INFANT AND NEONATAL DEATHS ARE INCLUDED IN TOTAL RESIDENT DEATHS.

(3) MARRIAGE INTENTIONS MAY BE FILED IN ANY MASSACHUSETTS COMMUNITY, REGARDLESS OF WHERE THE BRIDE AND GROOM RESIDE OR WHERE THE MARRIAGE CEREMONY OCCURS.

(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4A  
VITAL EVENTS BY COMMUNITY  
1992

COMMUNITY	POPULATION (1)	LIVE BIRTHS : RESIDENT : OCCURRENCE :	DEATHS : RESIDENT : OCCURRENCE :	INFANT DEATHS : TOTAL : (2)	MARRIAGES : LICENSES : : ISSUED : : (3) : (4)	RESIDENT : NATURAL : INCREASE
STATE TOTAL	6060943	88726 : 87202 :	54645 : 53804 :	569 : 415 :	43228 : 43228 :	33398
BLANDFORD	1252	0	0	0	3	4
BOLTON	3230	0	4	0	16	13
BOSTON	582170	19715	8884	98	3985	4143
BOURNE	16812	1	110	0	80	85
BOXBOROUGH	3445	0	0	0	12	66
BOXFORD	6577	1	7	0	18	53
BOYLSTON	3572	0	93	2	22	18
BRAINTREE	34296	0	383	0	26	18
BREWSTER	9096	1	85	0	237	-28
BRIDGENATER	21202	0	31	0	51	16
BRIMFIELD	3157	2	7	0	118	156
BROCKTON	91405	1422	1208	16	12	10
BROOKFIELD	3051	0	8	0	561	861
BROOKLINE	53898	2	211	0	28	15
BUCKLAND	1993	2	2	0	471	91
BURLINGTON	23371	1	427	0	17	2
CAMBRIDGE	95124	2531	1169	11	218	148
CANTON	18908	0	57	1	878	443
CARLISLE	4553	0	9	1	170	63
CARVER	11591	2	16	1	17	24
CHARLEMONT	1308	0	2	0	47	71
CHARLTON	9845	0	11	0	6	0
CHATHAM	6777	0	50	1	34	86
CHELMSFORD	32908	0	76	1	77	-80
CHELSEA	27859	6	100	1	248	240
CHESTER	3578	0	91	3	254	356
CHESTERFIELD	1304	1	3	0	13	12
CHICOPEE	1236	0	14	0	4	3
CHILMARK	56977	0	1	0	4	4
CLARKSBURG	682	0	181	3	411	203
CLINTON	1768	0	1	0	19	-1
	13084	0	113	1	7	-2
					115	74

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TABLE A-4A  
VITAL EVENTS BY COMMUNITY  
1992

COMMUNITY	POPULATION (1)	LIVE BIRTHS		DEATHS		INFANT DEATHS		MARRIAGES		RESIDENT NATURAL INCREASE
		OCCURRENCE :	RESIDENT :	OCCURRENCE :	RESIDENT :	TOTAL (2)	NEONATAL (2)	LICENSES : ISSUED : (3) :	OCCURRENCE (4)	
STATE TOTAL	6060943	88726	87202	54645	53804	569	415	43228	43228	33398
COHASSET	7340	0	87	35	57	0	0	52	110	30
COLRAIN	1792	0	29	2	10	0	0	11	14	19
CONCORD	17425	1766	177	292	118	1	1	153	184	59
CONWAY	1594	0	21	6	13	0	0	3	10	8
CUMMINGTON	863	0	16	3	7	0	0	5	20	9
DALTON	7030	0	72	19	69	0	0	41	51	3
DANVERS	24409	1	299	186	257	0	0	199	337	42
DARTMOUTH	27437	5	221	70	256	2	2	114	144	-35
DEDHAM	23886	1	315	72	205	1	0	342	253	110
DEERFIELD	5078	1	59	20	36	1	0	34	53	23
DENNIS	14479	0	126	113	218	1	0	90	73	-92
DIGHTON	5710	0	69	14	52	1	0	32	39	17
DOUGLAS	5548	1	88	12	33	0	0	38	30	55
DOVER	5057	0	61	6	29	0	0	34	29	32
DRACUT	26585	2	443	28	174	4	3	138	131	269
DUDLEY	9595	1	127	18	71	2	1	77	67	56
DUNSTABLE	2364	0	37	5	13	0	0	13	11	24
DUXBURY	14267	0	147	71	95	2	2	82	124	52
EAST BRIDGEWATER	11076	0	173	40	87	0	0	73	93	86
EAST BROOKFIELD	2015	0	31	1	13	1	1	10	15	18
EAST LONGMEADOW	13405	0	142	97	141	0	0	129	81	1
EASTHAM	4795	1	45	19	66	1	1	22	34	-21
EASTHAMPTON	15825	0	208	37	155	0	0	148	117	53
EASTON	20062	0	278	52	116	2	2	144	147	162
EDGARTOWN	3268	0	43	12	29	0	0	61	139	14
EGREMONT	1291	0	16	8	9	0	0	7	12	7
ERVING	1438	0	11	2	8	0	0	2	4	3
ESSEX	3242	1	38	9	28	0	0	15	17	10
EVERETT	35446	3	595	437	397	3	3	301	238	198
FAIRHAVEN	16066	1	176	103	192	1	1	112	122	-16
FALL RIVER	91378	1869	1394	1426	1068	15	11	679	577	326
FALMOUTH	28675	558	349	464	342	1	0	238	318	7

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TABLE A-4A  
VITAL EVENTS BY COMMUNITY  
1992

COMMUNITY	POPULATION (1)	LIVE BIRTHS		DEATHS		INFANT DEATHS		MARRIAGES		RESIDENT NATURAL INCREASE
		OCCURRENCE :	RESIDENT :	OCCURRENCE :	RESIDENT :	TOTAL :	NEONATAL (2)	LICENSES : ISSUED :	OCCURRENCE (4)	
STATE TOTAL	6060943	88726	87202	54645	53804	569	415	43228	43228	33398
FITCHBURG	40786	834	614	459	412	7	3	272	259	202
FLORIDA	751	1	9	1	5	1	1	1	2	4
FOXBOROUGH	15079	0	199	37	105	2	2	101	107	94
FRAMINGHAM	65790	2339	963	560	478	5	4	467	375	485
FRANKLIN	22766	1	403	63	130	2	1	147	104	273
FREETOWN	8738	0	80	14	47	0	0	40	124	33
GARDNER	20125	338	281	300	240	3	2	156	138	41
GAY HEAD	212	0	2	0	5	0	0	5	26	-3
GEORGETOWN	6525	0	97	9	38	1	0	29	35	59
GILL	1591	0	13	5	15	0	0	2	10	-2
GLOUCESTER	29227	279	434	244	233	1	1	204	283	201
GOSHEN	919	0	8	0	2	0	0	2	12	6
GOSNOLD	84	0	2	0	0	0	0	0	3	2
GRAFTON	13076	0	197	24	89	0	0	96	95	108
GRANBY	5711	0	71	13	52	0	0	31	41	19
GRANVILLE	1490	0	15	1	11	1	0	3	7	4
GREAT BARRINGTON	7632	191	77	203	103	1	1	83	46	-26
GREENFIELD	18506	674	233	489	264	1	1	180	117	-31
GROTON	7898	1	124	7	23	0	0	44	105	101
GROVELAND	5260	0	67	4	35	0	0	24	15	32
HADLEY	4210	0	34	11	43	0	0	35	27	-9
HALIFAX	6681	0	99	11	54	0	0	43	39	45
HAMILTON	7387	1	106	12	41	0	0	49	69	65
HAMPDEN	4845	2	35	30	32	0	0	27	28	3
HANCOCK	622	0	8	0	4	0	0	4	8	4
HANOVER	11896	0	156	16	92	0	0	84	89	64
HANSON	9161	0	146	14	53	0	0	43	60	93
HARDWICK	2474	0	24	5	19	0	0	36	23	5
HARVARD	12673	1	121	19	22	0	0	26	32	99
HARWICH	10693	0	94	91	170	2	2	86	116	-76
HATFIELD	3248	0	34	8	29	0	0	20	16	5
HAVERHILL	52070	792	1012	581	537	10	8	336	339	475

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TABLE A-4A  
VITAL EVENTS BY COMMUNITY  
1992

COMMUNITY	POPULATION (1)	LIVE BIRTHS		DEATHS		INFANT DEATHS		MARRIAGES		RESIDENT NATURAL INCREASE
		OCCURRENCE :	RESIDENT :	OCCURRENCE :	RESIDENT :	TOTAL :	NEONATAL (2)	LICENSES : ISSUED :	OCCURRENCE (4)	
STATE TOTAL	6060943	88726	87202	54645	53804	569	415	43228	43228	33398
HAWLEY	349	0	3	1	3	0	0	5	4	0
HEATH	709	0	8	1	4	0	0	0	6	4
HINGHAM	19670	2	216	61	155	1	1	137	193	61
HINSDALE	2009	0	19	24	23	0	0	8	6	-4
HOLBROOK	11311	0	139	19	85	0	0	71	68	54
HOLDEN	14629	1	159	59	119	1	1	70	52	40
HOLLAND	2324	0	39	3	7	0	0	12	7	32
HOLLISTON	13280	1	157	22	69	1	0	82	83	88
HOLYOKE	42463	1269	810	884	591	6	4	304	296	219
HOPEDALE	5524	1	97	36	48	0	0	41	49	49
HOPKINTON	9698	1	185	14	46	0	0	69	41	139
HUBBARDSTON	2834	0	61	2	10	0	0	12	11	51
HUDSON	17792	0	278	33	115	3	1	136	83	163
HULL	10263	0	186	18	73	1	1	74	43	113
HUNTINGTON	2034	0	26	0	11	0	0	8	13	15
IPSWICH	12145	0	158	46	102	0	0	81	128	56
KINGSTON	9154	0	158	39	59	0	0	78	67	99
LAKEVILLE	8160	0	122	33	57	0	0	44	40	65
LANCASTER	6652	1	61	15	41	0	0	18	46	20
LANESBOROUGH	3155	0	30	6	23	0	0	12	20	7
LAWRENCE	67801	1756	1517	564	577	10	8	494	530	940
LEE	5875	0	61	31	60	0	0	60	41	1
LEICESTER	10272	0	135	22	71	1	1	46	52	64
LEHOX	5098	1	44	79	75	0	0	55	130	-31
LEOMINSTER	38312	1432	665	343	334	7	5	345	290	331
LEVERETT	1826	2	18	2	7	0	0	8	10	11
LEXINGTON	29138	2	256	176	209	0	0	200	260	47
LEYDEN	723	0	6	2	4	0	0	4	6	2
LINCOLN	7882	0	50	14	27	0	0	54	79	23
LITTLETON	7259	0	101	45	74	0	0	65	75	27
LONGMEADOW	15547	0	127	59	143	0	0	104	70	-16
LOWELL	102463	3035	1993	1314	930	17	12	633	582	1063

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TABLE A-4A  
VITAL EVENTS BY COMMUNITY  
1992

COMMUNITY	POPULATION (1)	LIVE BIRTHS		DEATHS		INFANT DEATHS		MARRIAGES LICENSES ISSUED (3)	MARRIAGES OCCURRENCE (4)	RESIDENT NATURAL INCREASE
		OCCURRENCE	RESIDENT	OCCURRENCE	RESIDENT	TOTAL	NEONATAL (2)			
STATE TOTAL	6060943	88726	87202	54645	53804	569	415	43228	43228	33398
LUDLOW	19118	1	216	169	155	0	0	133	136	61
LUNENBURG	9204	0	96	13	51	0	0	54	79	45
LYNN	80018	8	1535	798	847	16	12	558	492	688
LYNNFIELD	11313	1	112	20	78	2	2	62	131	34
MALDEN	53746	1676	863	429	539	4	3	353	371	324
MANCHESTER	5360	0	57	23	44	0	0	37	46	13
MANSFIELD	16763	0	354	13	80	0	0	147	129	274
MARBLEHEAD	19895	1	252	79	171	1	1	213	189	81
MARION	4539	0	55	54	43	0	0	36	52	12
MARLBOROUGH	32499	0	604	297	244	2	2	284	194	360
MARSHFIELD	21897	0	344	43	164	2	1	145	132	180
MASHPEE	8637	0	180	26	71	0	0	65	117	109
MATTAPOISETT	5954	0	71	15	57	0	0	41	46	14
MAYNARD	10545	0	185	19	87	0	0	61	36	98
MEDFIELD	10844	0	156	16	56	1	1	61	41	100
MEDFORD	56936	0	730	407	578	10	9	391	364	152
MEDWAY	10266	0	174	41	54	0	0	53	47	120
MELROSE	28095	1299	342	434	272	1	1	182	132	70
MENDON	4131	0	50	8	27	1	1	21	30	23
MERRIMAC	5302	1	67	11	31	0	0	47	24	36
METHUEN	40696	946	581	651	400	4	4	279	215	181
MIDDLEBOROUGH	18049	1	253	123	169	1	0	149	126	84
MIDDLEFIELD	452	0	6	0	2	0	0	2	2	4
MIDDLETON	5180	0	88	12	35	0	0	33	25	53
MILFORD	25399	422	367	333	196	3	2	192	148	171
MILLBURY	12201	1	183	52	130	1	1	80	43	53
MILLIS	7838	0	132	9	39	1	0	45	66	93
MILLVILLE	2341	0	44	5	15	0	0	10	10	29
MILTON	25884	0	280	320	261	0	0	167	181	19
MONROE	112	0	0	0	0	0	0	0	0	0
MONSON	7945	0	105	35	69	0	0	40	48	36
MONTAGUE	8309	0	97	33	113	1	1	52	50	-16

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TABLE A-4A  
VITAL EVENTS BY COMMUNITY  
1992

COMMUNITY	POPULATION (1)	LIVE BIRTHS		DEATHS		INFANT DEATHS		MARRIAGES		RESIDENT NATURAL INCREASE
		OCCURRENCE :	RESIDENT :	OCCURRENCE :	RESIDENT :	TOTAL :	NEONATAL (2)	LICENSES : ISSUED :	OCCURRENCE (4)	
STATE TOTAL	6060943	88726	87202	54645	53804	569	415	43228	43228	33398
MONTEREY	935	2	14	1	3	0	0	4	5	11
MONTGOMERY	788	0	9	0	4	0	0	1	1	5
MOUNT WASHINGTON	131	0	2	0	2	0	0	1	3	0
NAHANT	3866	0	40	20	32	1	0	29	77	8
NANTUCKET	6470	76	88	63	66	0	0	138	235	22
NATICK	30883	804	426	318	254	2	1	235	142	172
NEEDHAM	27849	0	361	248	250	1	1	198	131	111
NEW ASHFORD	185	0	3	0	1	0	0	0	2	2
NEW BEDFORD	98462	1928	1519	1393	1169	14	12	752	733	350
NEW BRAINTREE	878	0	8	1	2	0	0	5	3	6
NEW MARLBOROUGH	1347	1	12	3	7	0	0	6	21	5
NEW SALEM	889	0	4	1	5	0	0	0	7	-1
NEWBURY	5872	0	87	12	40	1	0	36	33	47
NEWBURYPORT	16664	958	214	283	168	0	0	136	120	46
NEWTON	82919	3882	893	600	677	2	1	665	607	216
NORFOLK	9726	0	141	120	41	0	0	47	25	100
NORTH ADAMS	16610	470	219	284	180	0	0	99	90	39
NORTH ANDOVER	23327	0	319	102	163	1	1	113	149	156
NORTH ATTLEBORO	25077	0	401	72	191	2	1	188	144	210
NORTH BROOKFIELD	4731	0	77	3	36	2	2	32	34	41
NORTH READING	12348	1	176	23	66	2	2	72	62	110
NORTHAMPTON	29174	1035	272	631	293	2	1	236	209	-21
NORTHBOROUGH	12061	0	176	34	71	1	1	58	67	105
NORTHBRIDGE	13364	2	197	101	128	0	0	96	97	69
NORTHFIELD	2839	0	25	7	29	0	0	26	28	-4
NORTON	14446	0	243	39	86	2	1	83	94	157
NORWELL	9275	0	124	38	72	0	0	33	54	52
NORWOOD	28958	1042	378	625	322	3	2	267	213	56
OAK BLUFFS	2811	131	41	68	29	0	0	34	56	12
OAKHAM	1574	0	30	5	10	0	0	9	11	20
ORANGE	7539	0	106	8	60	1	1	45	45	46
ORLEANS	6244	0	34	42	96	0	0	78	84	-62

(1) POPULATION DATA ARE INTERPOLATIONS OF THE 1990 U.S. CENSUS AND MISER 1995 ESTIMATES

(2) INFANT AND NEONATAL DEATHS ARE INCLUDED IN TOTAL RESIDENT DEATHS.

(3) MARRIAGE INTENTIONS MAY BE FILED IN ANY MASSACHUSETTS COMMUNITY, REGARDLESS OF WHERE THE BRIDE AND GROOM RESIDE OR WHERE THE MARRIAGE CEREMONY OCCURS.

(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4A  
VITAL EVENTS BY COMMUNITY  
1992

COMMUNITY	POPULATION (1)	LIVE BIRTHS : OCCURRENCE : : RESIDENT :	DEATHS : OCCURRENCE : : RESIDENT :	INFANT DEATHS : TOTAL : : (2) :	MARRIAGES : LICENSES : : ISSUED : : (3) : : (4) :	RESIDENT NATURAL INCREASE
STATE TOTAL	6060943	88726 : 87202	54645 : 53804	569 : 415	43228 : 43228	33398
OTIS	1142	0	4	0	10	3
OXFORD	12852	13	10	0	103	105
PALMER	12289	199	94	0	101	52
PAXTON	4124	170	118	2	10	24
PEABODY	47281	45	21	0	311	298
PELHAM	1483	680	382	2	2	0
PEMBROKE	14817	10	10	1	73	150
PEPPERELL	10765	251	101	1	64	127
PERU	857	185	58	1	2	14
PETERSHAM	1140	16	2	0	7	-3
PHILLIPSTON	1473	9	12	0	3	9
PITTSFIELD	47852	19	10	0	396	124
PLAINFIELD	602	633	509	2	6	1
PLAINVILLE	6987	6	5	0	47	48
PLYMOUTH	45618	103	367	7	322	409
PLYMPTON	2441	776	8	0	15	21
PRINCETON	3304	29	10	0	15	31
PROVINCETOWN	3581	41	10	0	35	-43
QUINCY	85756	17	60	0	778	258
RANDOLPH	30614	1206	948	6	160	131
RAYNHAM	9999	431	300	1	81	48
READING	22783	119	71	1	152	95
REHOBOTH	9008	283	188	1	34	57
REVERE	43322	95	38	0	319	200
RICHMOND	1694	662	462	2	4	11
ROCHESTER	4172	16	5	0	8	23
ROCKLAND	15928	46	23	0	109	106
ROCKPORT	7518	237	131	1	61	-25
ROWE	413	80	105	0	1	-3
ROWLEY	4593	3	6	0	15	36
ROYALSTON	1206	59	23	1	3	2
RUSSELL	1660	10	8	0	11	13
		24	11	0		

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(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4A  
VITAL EVENTS BY COMMUNITY  
1992

COMMUNITY	POPULATION (1)	LIVE BIRTHS		DEATHS		INFANT DEATHS		MARRIAGES		RESIDENT NATURAL INCREASE
		OCCURRENCE :	RESIDENT :	OCCURRENCE :	RESIDENT :	TOTAL :	NEONATAL (2)	LICENSES : ISSUED :	OCCURRENCE (4)	
STATE TOTAL	6060943	88726	87202	54645	53804	569	415	43228	43228	33398
RUTLAND	5033	1	72	10	36	0	0	34	24	36
SALEM	38334	2331	638	688	402	7	5	331	350	236
SALISBURY	7572	2	113	23	73	0	0	50	64	40
SANDSFIELD	787	0	6	3	7	0	0	3	3	-1
SANDWICH	16576	0	199	60	120	1	1	93	105	79
SAUGUS	25690	0	305	93	248	2	1	208	169	57
SAVOY	705	0	9	2	5	0	0	2	4	4
SCITUATE	16727	1	200	77	159	1	0	126	174	41
SEEKONK	13152	2	149	30	86	2	2	168	152	63
SHARON	16059	1	209	30	93	0	0	72	66	116
SHEFFIELD	2939	1	36	5	30	1	1	28	27	6
SHELBORNE	2069	0	17	4	24	0	0	15	22	-7
SHERBORN	4146	0	49	1	10	0	0	22	31	39
SHIRLEY	6349	0	90	6	29	0	0	33	43	61
SHREWSBURY	24102	1	354	101	244	2	2	174	121	110
SHUTESBURY	1605	0	22	1	4	0	0	6	6	18
SOMERSET	17596	0	132	55	173	2	2	117	105	-41
SOMERVILLE	73941	2	1028	342	654	9	9	515	407	374
SOUTH HADLEY	16809	0	167	68	158	0	0	116	139	9
SOUTHAMPTON	4705	0	59	7	26	0	0	15	10	33
SOUTHBOROUGH	17499	1	115	5	26	1	1	50	53	89
SOUTHBRIDGE	7964	0	299	254	176	1	1	142	118	123
SOUTHWICK	11960	2	91	10	51	0	0	52	54	40
SPENCER	154190	6103	171	19	90	1	1	85	107	81
SPRINGFIELD	6863	0	2837	2366	1566	30	22	1014	998	1271
STERLING	2396	0	103	8	37	0	0	43	61	66
STOCKBRIDGE	22606	1098	13	3	15	0	0	27	51	-2
STONEHAM	27567	1658	244	216	198	2	2	167	110	46
STOUGHTON	5570	0	362	482	218	1	1	192	151	144
STON	8090	0	82	4	18	2	2	34	50	64
STURBRIDGE	14673	0	102	8	66	1	1	92	108	36
SUDBURY		0	201	56	61	2	1	112	402	140

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TABLE A-4A  
VITAL EVENTS BY COMMUNITY  
1992

COMMUNITY	POPULATION (1)	LIVE BIRTHS		DEATHS		INFANT DEATHS		MARRIAGES		RESIDENT NATURAL INCREASE
		OCCURRENCE :	RESIDENT :	OCCURRENCE :	RESIDENT :	TOTAL (2)	NEONATAL (2)	LICENSES : ISSUED : (3) :	OCCURRENCE (4)	
STATE TOTAL	6060943	88726	87202	54645	53804	569	415	43228	43228	33398
SUNDERLAND	3397	0	59	15	19	0	0	15	6	40
SUTTON	7105	1	104	2	31	0	0	35	40	73
SWAMPSCOTT	13528	0	159	48	154	2	1	102	107	5
SWANSEA	15574	0	146	46	131	0	0	85	139	15
TAUNTON	49521	750	876	540	485	8	5	361	382	391
TEMPLETON	6549	1	70	46	74	1	1	30	50	-4
TENKSURRY	27820	2	468	129	198	2	1	172	129	270
TISBURY	3371	1	43	11	36	0	0	40	51	7
TOLLAND	304	0	5	2	4	0	0	0	1	1
TOPSFIELD	5766	0	68	7	34	0	0	31	48	34
TOWNSEND	9210	0	118	8	46	0	0	48	43	72
TRURO	1593	0	18	7	13	0	0	13	24	5
TYNGSBOROUGH	9203	1	138	13	42	0	0	75	38	96
TYRINGHAM	389	0	3	0	1	0	0	2	4	2
UPTON	4789	0	96	10	32	0	0	30	31	64
UXBRIDGE	10440	0	176	24	80	4	3	80	85	96
WAKEFIELD	25190	0	321	110	222	2	1	175	165	99
WALES	1700	0	20	3	10	0	0	1	2	10
WALPOLE	20908	0	271	46	150	1	1	154	130	121
WALTHAM	58127	504	770	512	496	3	2	476	376	274
WARE	9989	135	121	120	118	0	0	78	82	3
WAREHAM	19990	494	302	274	230	0	0	153	132	72
WARREN	4494	1	63	5	38	0	0	27	17	25
WARWICK	729	0	6	3	8	0	0	2	2	-2
WASHINGTON	636	0	3	7	10	0	0	2	10	-7
WATERTOWN	33040	2	390	141	327	0	3	310	217	63
WAYLAND	12147	2	164	55	89	0	0	59	81	75
WEBSTER	16191	0	243	195	181	0	0	110	108	62
WELLESLEY	26824	1	315	100	171	0	0	174	212	144
WELLFLEET	2651	0	17	15	31	0	0	23	37	-14
WENDELL	957	0	7	2	4	0	0	2	3	3
WENHAM	4240	0	34	9	21	0	0	17	22	13

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(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.



TABLE A-4A  
VITAL EVENTS BY COMMUNITY  
1992

COMMUNITY	POPULATION (1)	LIVE BIRTHS : OCCURRENCE : RESIDENT :	DEATHS : OCCURRENCE : RESIDENT :	INFANT DEATHS : TOTAL : NEONATAL (2)	MARRIAGES : LICENSES : OCCURRENCE ISSUED : (3) : (4)	RESIDENT NATURAL INCREASE
STATE TOTAL	6060943	88726 : 87202 :	54645 : 53804 :	569 : 415 :	43228 : 43228 :	33398
WEST BOYLSTON	6576	0	33	0	39	-7
WEST BRIDGEWATER	6444	0	17	0	34	24
WEST BROOKFIELD	3692	2	56	0	21	-5
WEST NEWBURY	3563	0	3	0	32	24
WEST SPRINGFIELD	27429	2	123	5	173	113
WEST STOCKBRIDGE	1485	0	5	1	3	15
WEST TISBURY	1711	0	6	0	19	40
WESTBOROUGH	14074	0	105	0	138	63
WESTFIELD	38684	1	423	1	270	162
WESTFORD	17014	1	26	2	95	187
WESTHAMPTON	1385	1	0	0	4	11
WESTMINSTER	6324	0	11	1	37	25
WESTON	10377	0	66	0	71	21
WESTPORT	14104	2	30	1	102	24
WESTWOOD	12702	0	42	1	91	32
WEYMOUTH	55258	2679	820	1	410	263
WHATELY	1430	1	5	0	5	10
WHITMAN	13150	0	28	0	81	97
WILBRAHAM	12797	0	80	1	84	-15
WILLIAMSBURG	2626	0	12	0	11	-5
WILLIAMSTOWN	8108	0	97	1	58	-13
WILMINGTON	18008	1	44	0	117	199
WINCHENDON	9019	0	30	2	43	63
WINCHESTER	20204	2074	435	1	139	38
WINDSOR	790	0	1	0	4	6
WINTHROP	18234	0	232	0	151	-11
WOBURN	36873	1	100	2	314	251
WORCESTER	167457	6786	3181	20	1220	821
WORTHINGTON	1331	0	0	1	4	7
WRENTHAM	9432	2	66	0	57	47
YARMOUTH	21611	0	189	2	140	-123

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(3) MARRIAGE INTENTIONS MAY BE FILED IN ANY MASSACHUSETTS COMMUNITY, REGARDLESS OF WHERE THE BRIDE AND GROOM RESIDE OR WHERE THE MARRIAGE CEREMONY OCCURS.

(4) MARRIAGE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

TABLE A-4B  
VITAL EVENTS BY COUNTY  
1992

COUNTY	POPULATION (1)	LIVE BIRTHS		DEATHS		INFANT DEATHS		MARRIAGES (3)	DIVORCES (3)	RESIDENT NATURAL INCREASE
		OCCURRENCE :	RESIDENT :	OCCURRENCE :	RESIDENT :	TOTAL (2)	NEONATAL (2)			
STATE TOTAL	6060943	88726	87202	54645	53804	569	415	43228	15411	33398
BARNSTABLE	194658	1771	2252	2226	2349	13	7	1955	553	-97
BERKSHIRE	139370	1807	1616	1584	1436	7	5	1082	522	180
BRISTOL	505155	5472	7235	4405	4781	57	43	3558	1627	2454
BUKES	12139	132	157	98	111	0	0	343	60	46
ESSEX	672646	9717	10509	5801	6089	75	56	5145	1910	4420
FRANKLIN	71038	681	840	623	703	7	6	477	275	137
HAMPDEN	455236	7382	6829	4757	4531	51	37	3057	1439	2298
HAMPSHIRE	148626	1175	1462	995	1135	6	5	927	266	327
MIDDLESEX	1409207	21042	19978	10519	11162	113	86	9667	2002	8816
NANTUCKET	6470	76	88	63	66	0	0	235	38	22
NORFOLK	625858	6471	8254	4801	5460	28	22	4201	1573	2794
PLYMOUTH	437302	2899	6677	2918	3514	36	25	2929	1310	3163
SUFFOLK	671585	19724	10759	9340	6071	105	73	4732	1523	4688
WORCESTER	711653	10377	10546	6515	6396	71	50	4920	2313	4150

(1) POPULATION DATA ARE INTERPOLATIONS OF THE 1990 U.S. CENSUS AND THE MISER 1995 ESTIMATES.

(2) INFANT AND NEONATAL DEATHS ARE INCLUDED IN TOTAL RESIDENT DEATHS.

(3) MARRIAGE AND DIVORCE FIGURES REFLECT OCCURRENCE, NOT RESIDENCE.

# ***BIRTHS***



## SECTION B

### BIRTHS

There were 87,202 live births to Massachusetts residents in 1992, a 1.1% decrease from the 88,176 resident live births in 1991. Live births to Massachusetts residents include all births to Massachusetts residents, regardless of the state in which they occurred. Most data presented in this section are resident data. Table B-10 presents births by hospital/birthing center of occurrence.

#### OCCURRENCE BIRTHS

In 1992, 88,726 births occurred in Massachusetts. All but 344 births occurred at the 57 hospitals with maternity units or birthing centers in this state. The number of babies delivered at these hospitals/birthing centers ranged from 75 at Nantucket Cottage Hospital in Nantucket to 8,893 at Brigham and Women's Hospital in Boston. The median number of births per facility was 1,097, a decrease from the median number of 1,150 in 1991. The four hospitals with the greatest numbers of births -- Brigham and Women's (8,893), Baystate Medical Center (6,092), Beth Israel (5,579), and Medical Center of Central Massachusetts--Memorial<sup>1</sup> (3,914) -- represented 27.6% of all births occurring in Massachusetts. The distribution of Massachusetts births by hospital size is presented below.

**1992 DISTRIBUTION OF MASSACHUSETTS  
OCCURRENCE BIRTHS BY HOSPITAL**

NUMBER OF BIRTHS AT HOSPITAL	NUMBER OF HOSPITALS IN CATEGORY	TOTAL NUMBER OF BIRTHS IN CATEGORY	% OF TOTAL BIRTHS
< 500	10	2,639	3.0
500-999	15	11,446	12.9
1000-1499	12	14,555	16.4
1500-1999	7	12,250	13.8
≥ 2000	13	47,492	53.5
ALL OTHER <sup>2</sup>		344	0.4
TOTAL	57	88,726	100.0

<sup>1</sup> Formerly known as Worcester Memorial Hospital.

<sup>2</sup> Includes hospitals without maternity units, home births, births en route to hospital and births occurring in a doctor's office/clinic.

## HOME BIRTHS

A total of 289 births, or 0.33% of all Massachusetts resident births, occurred at home. Home births are under-counted in the data presented. Home births, much more than hospital births, tend to be recorded as delayed records (more than one year after the event) rather than reported at the time of birth. Delayed record statistics are not included in this report.

## BIRTHS BY RACE/ETHNICITY

There are a number of points to keep in mind when analyzing 1992 data by race/ethnicity. Since June 1986, information on both race and ethnicity rather than just race has been collected. This provides improved data, particularly for Hispanic births. Presented for comparison below are resident birth data for calendar years 1991 and 1992, utilizing maternal race and ethnicity information:

### RACE AND ETHNICITY OF MOTHER 1991 - 1992

MATERNAL RACE/ETHNICITY	1992		1991		+ OR -
	TOTAL BIRTHS	% OF BIRTHS	TOTAL BIRTHS	% OF BIRTHS	
White non-Hispanic	67,592	77.5	68,596	77.8	- 1,004
Black non-Hispanic	6,675	7.7	6,734	7.6	- 59
Hispanic	8,501	9.7	8,476	9.6	+ 25
Asian	3,277	3.8	3,289	3.7	- 12
Other <sup>3</sup>	974	1.1	943	1.1	+ 31
Unknown <sup>4</sup>	183	0.2	138	0.2	+ 45
TOTAL	87,202	100.0	88,176	100.0	- 974

The final point which must be considered is the method used to present data by race/ethnicity. Massachusetts follows the recommendation from the National Center for Health Statistics (NCHS) for classifying race/ethnicity on the birth certificate according to the self-reported race/ethnicity of the mother. In the past, the race/ethnicity of the infant was assigned by combining information on the race/ethnicity of the mother and the race/ethnicity of the father. Beginning with 1989 births, birth data are presented by race/ethnicity of the mother only.

<sup>3</sup> Other races include American Indian, Hawaiian, and Other.

<sup>4</sup> Unknown race: mothers did not indicate a race/ethnicity

## TEEN BIRTHS

For the third consecutive year, the number of births to mothers between the ages of 15 and 19 decreased -- from 6,892 in 1991 to 6,555 in 1992. The percentage of all Massachusetts resident births to mothers in this age group also decreased -- from 7.8% in 1991 to 7.5% in 1992. The age-specific birth rate decreased from 33.4 to 31.8.

## BIRTHS BY MARITAL STATUS

The proportion of unmarried mothers remained the same in 1992 as in 1991 -- 25.9% of all resident births were out-of-wedlock births. Almost 88% of the mothers under the age of 20 were unmarried, while 20.8% of the mothers aged 20 or older were unmarried.

## BIRTHS BY AGE OF MOTHER

Excluding mothers whose age was unknown and those in the  $\geq 45$  age group, the largest percentage increase in births between the years 1991 and 1992 (7.1%) were to mothers in the 40-44 age group, as shown below:

AGE OF MOTHER	NUMBER OF BIRTHS 1992	NUMBER OF BIRTHS 1991	DIFFERENCE IN THE NO. OF BIRTHS 1991-1992	PERCENTAGE CHANGE 1991-1992
< 20	6,675	7,014	- 339	- 4.8
20-24	15,867	16,796	- 929	- 5.5
25-29	26,799	27,812	- 1,013	- 3.6
30-34	25,719	25,127	+ 592	+ 2.4
35-39	10,442	9,855	+ 587	+ 6.0
40-44	1,640	1,531	+ 109	+ 7.1
$\geq 45$	56	36	+ 20	+ 55.5

## BIRTHS BY CAESAREAN SECTION

The number of Caesarean section deliveries to Massachusetts residents decreased from 19,495 in 1991 to 19,302 in 1992. The C-section rate per 1,000 live births remained virtually the same: 221.1 in 1991, 221.3 in 1992. The lowest rate of C-sections (when the mother's age was known) was for mothers less than the age of 19 (133.5 per 1,000 live births), and the highest rate was for women aged 40 and over (317.2 per 1,000 live births).

## **HOSPITAL PROFILES**

The following is a synopsis of the data presented in Table B-10, Hospital Profiles, Massachusetts Occurrence Births:

- Except for one birthing center which had no C-section births, the rate of Caesarean section deliveries per hospital ranged from 124.7 to 367.8 per 1,000 births.
- The highest percentage of low birthweight deliveries was at New England Medical Center in Boston (29.4%), the lowest percentage at North Shore Birthing Center in Beverly (0.9%). The proportion of low birthweight infants by hospital/birthing center varied considerably by race/ethnicity.
- Based on total occurrence births, adequacy of prenatal care (as defined by the Kessner index) by hospital/birthing center of delivery ranged from a low of 49.0% to a high of 97.5%. When comparing adequacy of prenatal care by race/ethnicity per hospital/birthing center, white non-Hispanic mothers received 48.4% to 97.8% adequate care; black non-Hispanic mothers received 41.2% to 94.4% adequate care; Hispanic mothers received 34.7% to 92.3% adequate care; and Asian mothers received 34.5% to 98.0% adequate care.
- Statewide, 60.0% of all new mothers breast fed their babies. By race/ethnicity, 61.7% of Hispanic mothers nursed their babies, followed by white non-Hispanic mothers (60.6%), black non-Hispanic mothers (54.9%), and Asian mothers (53.8%). With the exception of North Shore Birthing Center where 100.0% of the mothers breast fed their babies, the highest percentage of mothers who breast fed their babies occurred at Falmouth Hospital in Falmouth (87.1%), and the lowest percent occurred at Charlton Memorial Hospital in Fall River (35.0%).
- Statewide, private insurers paid for 70.3% of all deliveries. Private insurers paid for delivery for 79.0% of white non-Hispanic mothers, 59.3% of Asian mothers, 43.4 of black non-Hispanic mothers, and 27.6% of Hispanic mothers. The highest percentage of privately insured births occurred at South Shore Hospital in Weymouth (95.3%) and the lowest percentage at Cambridge Hospital in Cambridge (18.6%).

## **LOW BIRTHWEIGHT INFANTS**

The percentage of low birthweight infants (less than 2, grams or five pounds eight ounces) did not change from 1991 to 1992 (5.9%), although the actual number of low birthweight deliveries decreased from 5,200 births in 1991 to 5,137 births in 1992. The percent of low birthweight babies born to mothers under the age of 20 decreased slightly, from 11.0% in 1991 to 10.4% in 1992.



## **DEFINITIONS IMPORTANT FOR THIS SECTION INCLUDE:**

### **ADEQUACY OF PRENATAL CARE**

The Index of Adequacy of Prenatal Care (based on the Kessner Index) has five categories (adequate, intermediate, inadequate, no prenatal care, and unknown), based on the trimester in which prenatal care began and the number of prenatal visits. The general classification scheme is as follows:

CATEGORY	TRIMESTER CARE BEGAN	# OF VISITS
Adequate	1	9 or more
Intermediate	1	5-8
	2	5 or more
Inadequate	1	1-4
	2	1-4
	3	1 or more
No prenatal care	--	0
Unknown	Unknown	Unknown

This classification is adjusted for gestational age to allow for proper classification of premature births.

### **BIRTHWEIGHT**

The weight of an infant recorded at the time of delivery. It may be recorded in either pounds/ounces or grams. If recorded in pounds/ounces, it is converted to grams for use in this report.

1 pound = 453.6 grams

1,000 grams = 2 pounds, 3 ounces

### **BIRTHWEIGHT CATEGORIES**

Normal birthweight (NBW): An infant's weight of 2, grams (5.5 pounds) or more recorded at birth.

Low birthweight (LBW): An infant's weight of less than 2, grams (5.5 pounds) recorded at birth.

Very low birthweight (VLBW): An infant's weight of less than 1,500 grams (3.3 pounds) recorded at birth.

### **CAESAREAN SECTION or C-SECTION**

Primary: A mother's first Caesarean section delivery.

Repeat: A Caesarean delivery that has been preceded by at least one Caesarean delivery.

## ETHNICITY

See Race.

## INFANT

A child whose age is less than one year (365 days).

## LIVE BIRTH

A live birth is any infant who breathes or shows any other evidence of life (such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles) after separation from the mother's uterus, regardless of the duration of gestation.

## LOW BIRTHWEIGHT (LBW)

See Birthweight Categories.

## NEONATE

A child under 28 days of age.

## NORMAL BIRTHWEIGHT (NBW)

See Birthweight Categories.

## OCCURRENCE BIRTH

A birth occurring in the Commonwealth of Massachusetts, regardless of the residency of the mother. In Massachusetts, the place will be one of the 351 cities or towns. See Resident Birth.

## PARITY

Total number of live births, including the present birth, ever born to the mother.

## POST NEONATE

A child whose age is at least 28 days, but less than one year.

## PRIMARY

See Caesarean Section.

## RACE

**Assignment of an Infant's Race/Ethnicity:** Prior to 1989, the race/ethnicity of an infant was assigned by combining information on the race/ethnicity of the mother and the race/ethnicity of the father. Since 1989, Massachusetts has followed the National Center for Health Statistics' recommendation of classifying births according to the self-reported race/ethnicity of the mother. Therefore, beginning in 1989, the race/ethnicity of an infant is identical to the self-reported race/ethnicity of the infant's mother.

**Race of mother:** For data presented in this publication, mother's race is as reported by the infant's mother.

**Hispanic Ethnicity:** Beginning in 1986, an identifier for Hispanic ethnicity was added to the birth certificate. Prior to this change, most Hispanics were included with whites and it was not possible to accurately calculate Hispanic-specific rates of natality.

#### **REPEAT**

See Caesarean Section.

#### **RESIDENT BIRTH**

The birth of an infant whose mother reports that her usual place of residence is in Massachusetts. In Massachusetts, a resident is a person with a permanent address in one of the 351 cities or towns. Vital statistics data may be presented in terms either of residence or occurrence. Unless otherwise noted, all data in this publication are resident data. Resident data include all events that occur to residents of the Commonwealth, wherever they occur. Occurrence data include all events that occur within the state, whether to residents or non-residents. There is an exchange agreement among the 50 states, Canada, Puerto Rico, Guam, the Virgin Islands, and the District of Columbia that provides for exchange of copies of birth and death records. These records are used for statistical purposes only, and allow each state or province to track the births and deaths of its residents.

#### **VERY LOW BIRTHWEIGHT (VLBW)**

See Birthweight Categories.

#### **RATES IMPORTANT FOR THIS SECTION INCLUDE:**

<b>AGE-SPECIFIC BIRTH RATE</b>	$\frac{\text{No. of Resident Live Births for a Specific Age Group of Mothers}}{\text{Total Female Population of That Specific Age Group}} \times 1,000$
<b>CRUDE BIRTH RATE</b>	$\frac{\text{No. of Resident Live Births}}{\text{Total Resident Population}} \times 1,000$
<b>GENERAL FERTILITY RATE</b>	$\frac{\text{No. of Resident Live Births}}{\text{Total Female Population of Childbearing Age (15-44)}} \times 1,000$



FIGURE B-1

Every day in 1992, residents of Massachusetts experienced an average of:



238  
Births



14 Births Weighing  
<2500 Grams  
(Low Birthweight)



18 Births to Women  
Aged 15 through 19



33 Births to Women  
Aged 35 or Older



41 Births with less  
than Adequate  
Prenatal Care



53 Births by  
Caesarean Section

**TABLE B-1  
TRENDS IN BIRTH CHARACTERISTICS  
MASSACHUSETTS RESIDENTS  
1980-1992**

YEAR		1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
BIRTHS	# <sup>1</sup> Rate <sup>2</sup>	72,591 53.4	73,930 54.0	75,749 54.8	76,031 54.5	78,197 55.5	81,781 57.5	82,168 57.3	84,345 58.3	88,047 60.3	91,314 61.9	92,461 62.1	88,176 59.7	87,202 59.2
RACE OF MOTHER														
White <sup>3</sup>	#	66,220	66,802	67,838	68,038	69,137	71,854	71,855	74,444	76,746	80,027	80,775	76,983	76,054
	%	91.2	90.4	89.6	89.5	88.4	87.9	87.4	88.3	87.2	87.6	87.4	87.3	87.2
Black	#	4,626	4,687	4,673	4,570	4,829	5,099	5,407	6,198	6,725	7,374	7,729	7,352	7,205
	%	6.4	6.3	6.2	6.0	6.2	6.2	6.6	7.4	7.6	8.1	8.3	8.3	8.3
Other <sup>4</sup>	#	1,069	1,292	1,460	1,576	1,683	1,741	2,299	2,651	3,343	3,526	3,688	3,566	3,574
	%	1.5	1.7	1.9	2.1	2.1	2.1	2.8	3.1	3.8	3.9	4.0	4.0	4.1
Unknown	#	676	1,149	1,778	1,847	2,548	3,087	2,607	1,052	1,233	387	269	275	369
	%	0.9	1.6	2.3	2.4	3.3	3.8	3.2	1.2	1.4	0.4	0.3	0.3	0.4
TEENAGE BIRTHS	#	7,694	7,334	7,263	6,833	6,932	6,859	6,754	6,923	7,113	7,606	7,258	6,892	6,555
	Rate <sup>5</sup>	28.1	27.5	28.0	27.0	28.1	28.7	29.1	30.7	32.5	35.9	35.4	33.4	31.8
LOW BIRTHWEIGHT	#	4,413	4,428	4,447	4,461	4,597	4,751	4,642	4,846	5,266	5,372	5,388	5,200	5,137
	%	6.1	6.0	5.9	5.9	5.9	5.8	5.6	5.7	6.0	5.9	5.8	5.9	5.9
ADEQUATE PRENATAL CARE	% <sup>6</sup>	82.0	82.9	81.8	79.8	79.7	79.4	79.1	78.2	78.8	78.8	80.1	81.6	82.9
	%	79.6	80.4	79.9	78.4	79.2	78.6	76.2	75.4	75.4	77.6	78.8	81.2	82.7

<sup>1</sup> Differences in numbers of births from previous publications are the result of updated files

<sup>2</sup> Rate per 1,000 women aged 15-44. Differences in rates from previous publications are the results of modifications of population estimates.

<sup>3</sup> Prior to June 1986, birth certificate data did not include a specific ethnicity classification. Individuals who indicated Hispanic as their racial classification were grouped into the race category of white. Since June 1986, birth certificate data have included both a race and an ethnicity component. Individuals of Hispanic ethnicity are classified according to the race category that they select in cases where the race category of Hispanic is selected, the record is classified as other.

<sup>4</sup> Other races include Asian, American Indian, Hawaiian, and other.

<sup>5</sup> Rate per 1,000 females aged 15-19

<sup>6</sup> Percentages in upper row are based on births with known scores of adequacy of prenatal care; bottom row percentages are based on total numbers of births.

**TABLE B-2**  
**AGE-SPECIFIC AND CRUDE BIRTH RATES**  
**MASSACHUSETTS RESIDENT BIRTHS**  
**1991-1992**

Mother's Age	1991		1992		Percent Change
	<u>Births</u> Population <sup>1</sup>	Rate	<u>Births</u> <sup>2</sup> Population	Rate	
12-14	<u>122</u> 103,347	1.2	<u>120</u> 105,231	1.1	- 8.3
15-19	<u>6,892</u> 206,349	33.4	<u>6,555</u> 205,976	31.8	- 4.8
20-24	<u>16,796</u> 253,934	66.1	<u>15,867</u> 247,323	64.2	- 2.9
25-29	<u>27,812</u> 272,290	102.1	<u>26,799</u> 265,591	100.9	- 1.2
30-34	<u>25,127</u> 271,045	92.7	<u>25,719</u> 268,463	95.8	+ 3.3
35-39	<u>9,855</u> 247,216	39.9	<u>10,442</u> 250,482	41.7	+ 4.5
40-44	<u>1,531</u> 227,254	6.7	<u>1,640</u> 232,545	7.0	+ 4.5
General Fertility Rate, ages 15-44 <sup>3</sup>	<u>88,013</u> 1,478,088	59.5	<u>87,022</u> 1,470,380	59.2	- 0.5
Crude Birth Rate <sup>4</sup>	<u>88,176</u> 6,038,684	14.6	<u>87,202</u> 6,060,943	14.4	- 1.4

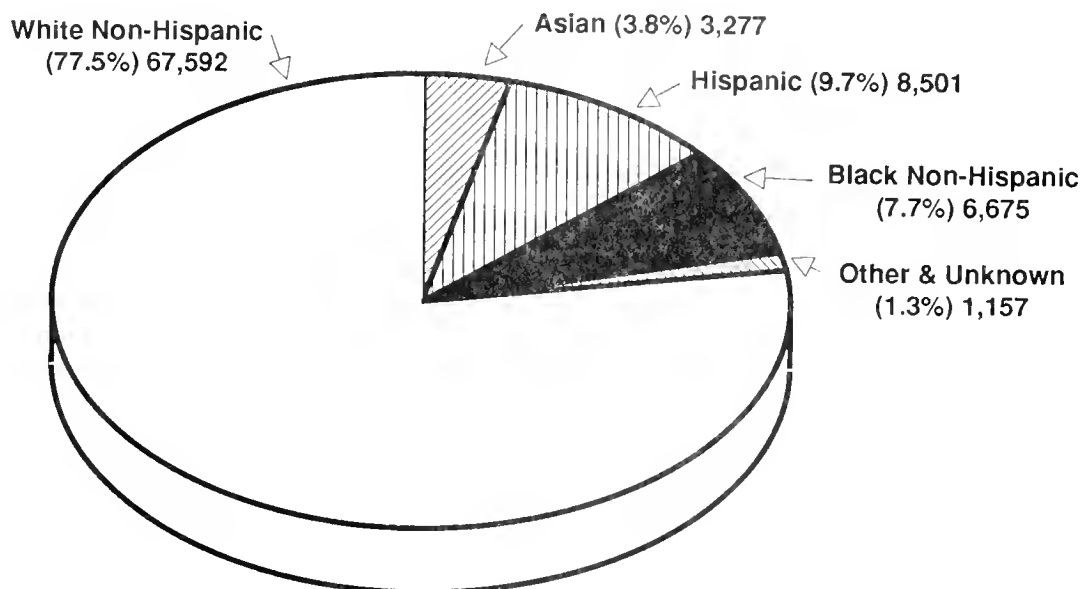
<sup>1</sup> Massachusetts 1991 and 1992 population data are interpolations of the 1990 US Census and MISER 1995 projections

<sup>2</sup> Differences in numbers of births from previous publications are the result of updated files

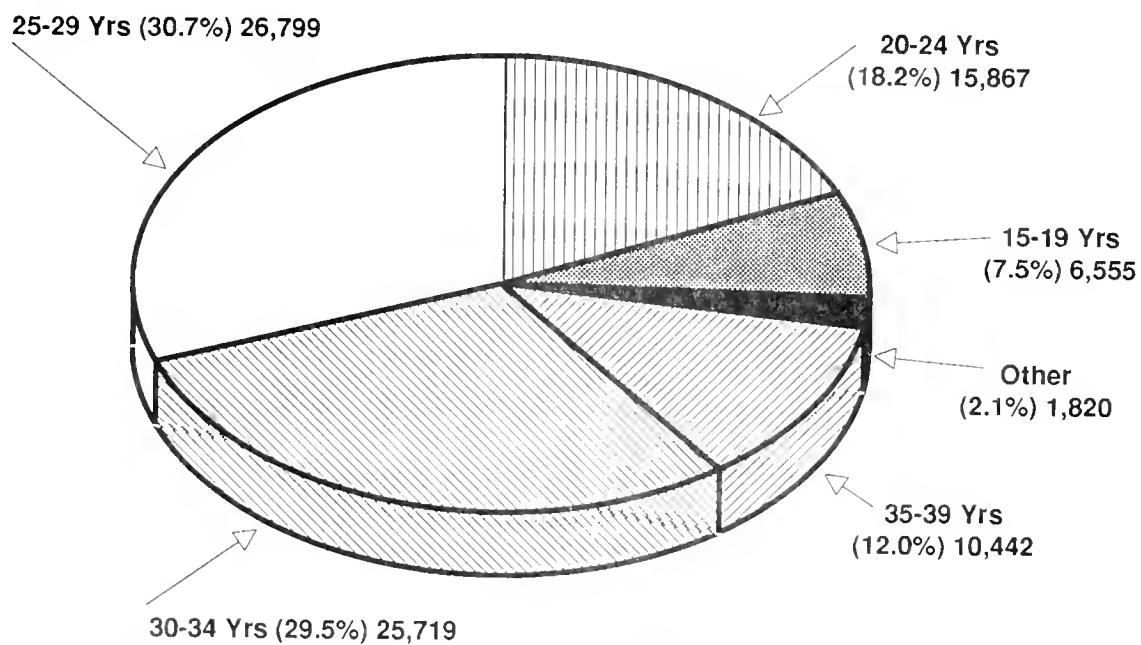
<sup>3</sup> Births per 1,000 females aged 15-44

<sup>4</sup> Births per 1,000 residents

**Figure B-2**  
**Resident Live Births by Mother's Race/Ethnicity**  
**1992**



**Figure B-3**  
**Resident Live Births by Mother's Age**  
**1992**





**TABLE B-3**  
**BIRTHS BY MOTHER'S AGE, MARITAL STATUS AND RACE/ETHNICITY**  
**MASSACHUSETTS RESIDENT BIRTHS**  
**1992**

AGE OF MOTHER	MARITAL STATUS	TOTAL	WHITE NON-HISPANIC	BLACK NON-HISPANIC	HISPANIC	ASIAN	OTHER	UNKNOWN
GRAND TOTAL <sup>1</sup>		87,202	67,592	6,675	8,501	3,277	974	183
TOTAL MARRIED		64,590	55,495	2,387	3,576	2,548	458	126
TOTAL UNMARRIED		22,612	12,097	4,288	4,925	729	516	57
< 15	TOTAL	120	41	28	40	8	3	0
	MARRIED	4	0	0	4	0	0	0
	UNMARRIED	116	41	28	36	8	3	0
15	TOTAL	341	128	72	122	9	10	0
	MARRIED	9	0	1	8	0	0	0
	UNMARRIED	332	128	71	114	9	10	0
16	TOTAL	782	337	144	254	21	24	2
	MARRIED	55	19	5	29	0	2	0
	UNMARRIED	727	318	139	225	21	22	2
17	TOTAL	1,327	670	209	385	32	30	1
	MARRIED	102	46	3	51	2	0	0
	UNMARRIED	1,225	624	206	334	30	30	1
18	TOTAL	1,753	993	254	417	50	36	3
	MARRIED	203	120	11	60	8	4	0
	UNMARRIED	1,550	873	243	357	42	32	3
19	TOTAL	2,352	1,378	351	518	58	44	3
	MARRIED	440	313	13	95	9	8	2
	UNMARRIED	1,912	1,065	338	423	49	36	1
20-24	TOTAL	15,867	10,502	1,709	2,717	605	308	26
	MARRIED	7,685	5,938	343	968	324	106	6
	UNMARRIED	8,182	4,564	1,366	1,749	281	202	20
25-29	TOTAL	26,799	21,409	1,871	2,202	1,025	244	48
	MARRIED	22,072	18,943	840	1,226	873	154	36
	UNMARRIED	4,727	2,466	1,031	976	152	90	12
30-34	TOTAL	25,719	21,910	1,350	1,307	924	173	55
	MARRIED	23,122	20,564	744	802	850	119	43
	UNMARRIED	2,597	1,346	606	505	74	54	12
35-39	TOTAL	10,442	8,857	582	446	435	87	35
	MARRIED	9,409	8,302	362	275	384	56	30
	UNMARRIED	1,033	555	220	171	51	31	5
40-44	TOTAL	1,640	1,331	99	90	98	12	10
	MARRIED	1,443	1,218	61	58	88	9	9
	UNMARRIED	197	113	38	32	10	3	1
≥ 45	TOTAL	56	34	5	2	12	3	0
	MARRIED	45	32	3	0	10	0	0
	UNMARRIED	11	2	2	2	2	3	0

<sup>1</sup> Grand total includes four women of unknown age

**TABLE B-4**  
**RESIDENT BIRTHS TO TEENAGE MOTHERS**  
**1970-1992**

YEAR	TOTAL BIRTHS	AGE OF MOTHER									% OF TOTAL BIRTHS
		12	13	14	15	16	17	18	19	TOTAL 12-19	
1970	93,582	3	8	70	320	802	1,726	3,043	4,285	10,257	11.0
1971	86,755	3	23	84	313	875	1,738	2,981	4,000	10,017	11.5
1972	76,835	1	20	103	348	955	1,841	2,834	3,690	9,792	12.7
1973	72,237	0	12	93	393	959	1,759	2,584	3,282	9,082	12.6
1974	70,071	2	16	79	333	895	1,762	2,524	3,181	8,792	12.5
1975	68,070	2	18	84	325	915	1,678	2,560	3,085	8,667	12.7
1976	65,947	7	12	96	336	807	1,478	2,332	2,923	7,991	12.1
1977	67,838	1	18	68	270	792	1,477	2,293	2,913	7,832	11.5
1978	68,526	3	15	67	303	737	1,445	2,252	2,979	7,801	11.4
1979	70,568	2	9	70	283	773	1,413	2,306	2,916	7,772	11.0
1980	72,591	1	14	56	300	740	1,360	2,202	3,092	7,765	10.7
1981	73,931	1	12	82	275	722	1,357	2,164	2,816	7,429	10.0
1982	75,749	1	14	83	299	753	1,328	2,161	2,722	7,361	9.7
1983	76,031	0	8	78	255	726	1,278	2,053	2,521	6,919	9.1
1984	78,198	1	8	75	265	714	1,307	2,061	2,585	7,016	9.0
1985	81,776	4	12	97	295	698	1,283	1,986	2,595	6,970	8.5
1986	82,163	0	15	82	334	712	1,233	1,954	2,521	6,851	8.3
1987	84,343	2	15	79	327	796	1,337	1,965	2,498	7,019	8.3
1988	88,047	0	27	120	352	732	1,450	2,068	2,511	7,260	8.2
1989	91,314	0	19	108	345	853	1,426	2,207	2,776	7,734	8.5
1990	92,461	3	18	103	351	810	1,344	2,014	2,739	7,382	8.0
1991	88,176	2	18	102	372	758	1,391	1,910	2,461	7,014	7.9
1992	87,202	3	14	103	341	782	1,327	1,753	2,352	6,675	7.6

**TABLE B-5  
BIRTHS BY BIRTHWEIGHT AND MOTHER'S RACE/ETHNICITY  
MASSACHUSETTS RESIDENT BIRTHS  
1992**

Birthweight (in grams)	TOTAL		White Non-Hispanic		Black Non-Hispanic		Hispanic		Asian		Other		Unknown	
	#	% <sup>1</sup>	#	%	#	%	#	%	#	%	#	%	#	%
State Total	87,202	100.0	67,592	100.0	6,675	100.0	8,501	100.0	3,277	100.0	974	100.0	183	100.0
<500	115	0.1	77	0.1	22	0.3	8	0.1	3	-- <sup>2</sup>	3	--	2	--
500-999	302	0.3	177	0.3	78	1.2	36	0.4	6	0.2	4	--	1	--
1,000-1,499	470	0.5	290	0.4	88	1.3	69	0.8	15	0.5	8	0.8	0	--
<b>VLBW (0-1,499)<sup>3</sup></b>	<b>887</b>	<b>1.0</b>	<b>544</b>	<b>0.8</b>	<b>188</b>	<b>2.8</b>	<b>113</b>	<b>1.3</b>	<b>24</b>	<b>0.7</b>	<b>15</b>	<b>1.5</b>	<b>3</b>	<b>--</b>
1,500-1,999	989	1.1	686	1.0	139	2.1	115	1.4	33	1.0	16	1.6	0	--
2,000-2,499	3,261	3.7	2,173	3.2	482	7.2	391	4.6	154	4.7	53	5.4	8	4.4
<b>LBW (0-2,499)<sup>4</sup></b>	<b>5,137</b>	<b>5.9</b>	<b>3,403</b>	<b>5.0</b>	<b>809</b>	<b>12.1</b>	<b>619</b>	<b>7.3</b>	<b>211</b>	<b>6.4</b>	<b>84</b>	<b>8.6</b>	<b>11</b>	<b>6.0</b>
2,500-2,999	12,795	14.7	8,871	13.1	1,440	21.6	1,527	18.0	725	22.1	212	21.8	20	10.9
3,000-3,499	30,739	35.2	23,204	34.3	2,448	36.7	3,272	38.5	1,404	42.8	359	36.9	52	28.4
3,500-3,999	27,261	31.3	22,405	33.1	1,494	22.4	2,306	27.1	760	23.2	243	24.9	53	29.0
4,000-4,499	9,318	10.7	8,070	11.9	383	5.7	642	7.6	146	4.5	65	6.7	12	6.6
4,500-4,999	1,599	1.8	1,389	2.1	72	1.1	108	1.3	25	0.8	4	--	1	--
≥ 5,000	150	0.2	139	0.2	3	--	6	0.1	0	--	1	--	1	--
Unknown	203	0.2	111	0.2	26	0.4	21	0.2	6	0.2	6	0.6	33	18.0

<sup>1</sup> Percentages are based on column totals.

<sup>2</sup> Calculations based on fewer than five events are excluded.

<sup>3</sup> VLBW: Very Low Birthweight (< 1,500 grams or 3.3 pounds).

<sup>4</sup> LBW: Low Birthweight (< 2,500 grams or 5.5 pounds).

**TABLE B-6  
BIRTH CHARACTERISTICS BY MOTHER'S RACE/ETHNICITY  
MASSACHUSETTS RESIDENT BIRTHS  
1992**

MOTHER'S RACE/ETHNICITY	TOTAL BIRTHS	TEENAGE BIRTHS		BIRTHWEIGHT		PRENATAL CARE <sup>1</sup>		CAESAREAN SECTIONS	BREAST- FEEDING <sup>4</sup>
		< 18 years	< 20 years	Very Low <sup>2</sup>	Low <sup>3</sup>	Adequate	First Trimester		
		%	%	%	%	%	% <sup>5</sup>	%	%
STATE TOTAL	87,202	2.9	7.7	1.0	5.9	82.9	87.2	22.2	60.0
WHITE NON-HISPANIC	67,592	1.7	5.2	0.8	5.0	86.7	90.5	22.8	60.5
BLACK NON-HISPANIC	6,675	6.8	15.8	2.8	12.2	66.6	72.6	21.2	54.9
Haitian	1,005	2.8	5.6	2.2	7.4	72.9	76.8	24.7	75.6
Other Black Non-Hispanic	5,670	7.5	17.7	2.9	13.0	65.5	71.8	20.5	51.3
HISPANIC	8,501	9.4	20.4	1.3	7.3	71.7	77.3	20.3	61.9
Puerto Rican	4,705	13.7	28.6	1.5	8.5	68.5	74.9	19.5	49.0
Dominican	1,396	5.6	12.2	1.0	5.5	79.9	83.8	23.7	75.3
Central American	921	3.1	9.2	0.7	5.3	66.9	71.8	14.6	79.3
Other Hispanic	1,479	3.4	9.3	1.6	6.5	77.4	82.6	23.0	79.2
ASIAN	3,277	2.1	5.4	0.7	6.5	73.0	77.9	16.6	53.8
Cambodian	561	5.7	14.1	0.5	8.4	50.9	56.8	6.9	17.7
Other Southeast Asian	763	4.2	10.6	0.5	6.7	60.1	67.6	14.5	27.1
Chinese	983	-- <sup>6</sup>	0.5	0.6	4.9	85.5	88.2	18.9	63.3
Other Asian	970	0.5	1.3	1.1	6.7	83.3	88.0	21.6	86.3
OTHER <sup>7</sup>	974	6.9	15.1	1.5	8.7	68.6	76.8	22.1	61.7
UNKNOWN <sup>8</sup>	183	--	4.9	2.0	7.3	51.6	68.9	17.0	69.9

<sup>1</sup> Calculations are computed for births with known adequacy of prenatal care scores, based on the Kessner Index. See definitions at the beginning of this section.

<sup>2</sup> Very Low Birthweight: < 1,500 grams or 3.3 pounds.

<sup>3</sup> Low Birthweight: < 2,500 grams or 5.5 pounds.

<sup>4</sup> Mother was or was intending to breastfeed at the time the birth certificate was completed.

<sup>5</sup> Percentage of mothers who had first prenatal visit during the first trimester of the pregnancy.

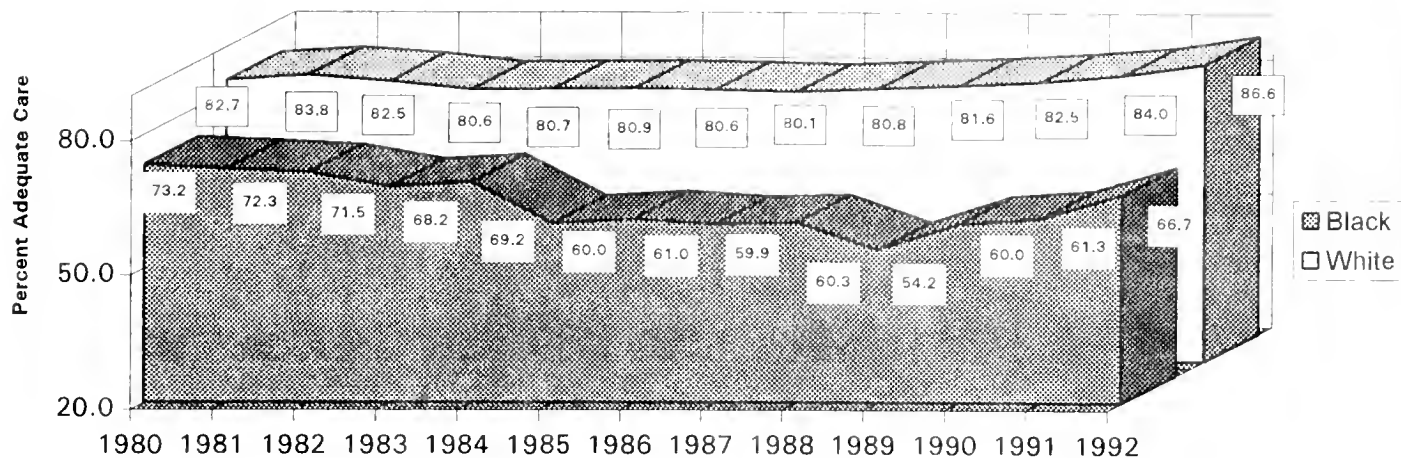
<sup>6</sup> Calculations based on fewer than five events are excluded.

<sup>7</sup> Other: Mothers who designated themselves as Other race.

<sup>8</sup> Unknown: Mothers who did not indicate a race/ethnicity.

Figure B-4

**Trends in Adequacy of Prenatal Care<sup>1</sup>  
by Mother's Race<sup>2</sup>  
Massachusetts: 1980-1992**

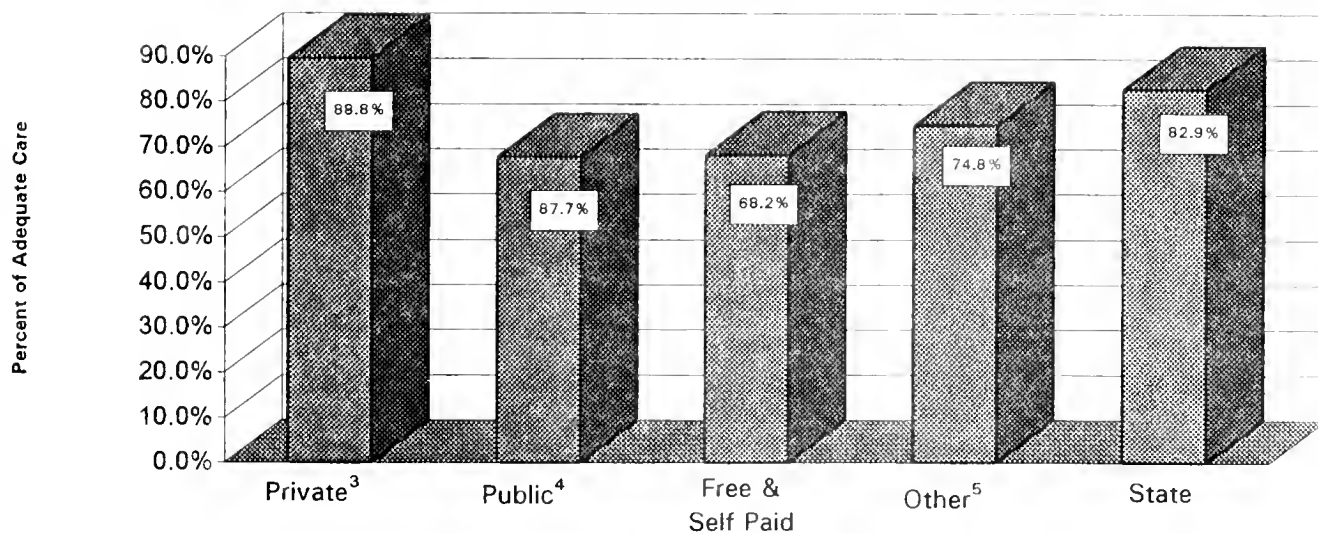


1. Calculations are based on births with known adequacy of prenatal care scores.

2. When calculating statistics which include data before June 1986, the race classifications do not include an ethnicity component; most Hispanics are included in the race category of white

Figure B-5

**Adequacy of Prenatal Care<sup>1</sup> by  
Prenatal Care Source of Payment<sup>2</sup>  
Massachusetts: 1992**



1. Percentages are based on births with known adequacy of prenatal care scores.

2. The source of payment for prenatal care is a self-reported item on the birth certificate. As with all such data, they are subject to the limitations of self-reported information and should be interpreted with the usual caution.

3. Private :Blue Cross/Blue Shield, Commercial Insurers and Health Maintenance Organizations.

4. Public: Medicaid, Medicare, Healthy Start and Other Government.

5. Other: Workers' Compensation and Other.

**TABLE B-7**  
**PARITY<sup>1</sup> BY AGE OF MOTHER**  
**MASSACHUSETTS RESIDENT BIRTHS**  
**1992**

AGE OF MOTHER		TOTAL	1ST	2ND	3RD	4TH	5TH	6TH	7TH	8TH	> 9	UNKNOWN
TOTAL	#	87,202	37,169	28,914	13,602	4,768	1,567	531	217	82	55	297
	%	100.00 <sup>2</sup>	42.62	33.16	15.60	5.47	1.80	0.61	0.25	0.09	0.06	0.34
10-14	#	120	115	5	0	0	0	0	0	0	0	0
	%	100.00	95.83	4.17	**3	**	**	**	**	**	**	**
15-19	#	6,555	5,117	1,113	250	55	6	1	0	0	0	13
	%	100.00	78.06	16.98	3.81	0.84	0.09	0.02	**	**	**	0.20
20-24	#	15,867	8,200	4,900	1,906	644	141	38	9	1	0	28
	%	100.00	51.68	30.88	12.01	4.05	0.89	0.24	0.06	0.01	**	0.18
25-29	#	26,799	12,059	8,952	3,844	1,254	411	132	55	14	5	73
	%	100.00	45.00	33.40	14.34	4.68	1.53	0.49	0.21	0.05	0.02	0.27
30-34	#	25,719	8,453	9,764	4,852	1,711	569	184	57	27	16	86
	%	100.00	32.87	37.96	18.87	6.65	2.21	0.72	0.22	0.10	0.06	0.33
35-39	#	10,442	2,772	3,638	2,415	951	357	131	60	29	21	68
	%	100.00	26.55	34.84	23.13	9.11	3.42	1.25	0.57	0.28	0.20	0.65
40-44	#	1,640	437	527	329	146	77	43	33	11	11	26
	%	100.00	26.65	32.13	20.06	8.90	4.70	2.62	2.01	0.67	0.67	1.59
≥ 45	#	56	13	15	6	6	6	2	3	0	2	3
	%	100.00	23.21	26.79	10.71	10.71	10.71	3.57	5.36	**	3.57	5.36
UNKNOWN	#	4	3	0	0	1	0	0	0	0	0	0
	%	100.00	75.00	**	**	25.00	**	**	**	**	**	**

<sup>1</sup> The number of live births including this birth

<sup>2</sup> Percents may not sum to 100.00 due to rounding

<sup>3</sup> \*\*Percentage less than 0.01%.

**TABLE B-8**  
**NUMBER OF PRIMARY AND REPEAT CAESAREAN SECTIONS BY AGE**  
**MASSACHUSETTS RESIDENT BIRTHS**  
**1992**

AGE OF MOTHER	TOTAL BIRTHS	C-SECTION RATE PER 1,000 LIVE BIRTHS	TOTAL CAESAREAN DELIVERIES		PRIMARY CAESAREAN DELIVERIES	REPEAT CAESAREAN DELIVERIES
<b>TOTAL</b>	87,202	221.3	#	19,302	11,928	7,374
			%	100.0	61.8	38.2
<b>&lt; 15</b>	120	125.0	#	15	15	0
			%	100.0	100.0	0.0
<b>15-19</b>	6,555	133.6	#	876	773	103
			%	100.0	88.2	11.8
<b>20-24</b>	15,867	181.4	#	2,878	2,002	876
			%	100.0	69.6	30.4
<b>25-29</b>	26,799	219.9	#	5,894	3,792	2,102
			%	100.0	64.3	35.7
<b>30-34</b>	25,719	241.5	#	6,211	3,486	2,725
			%	100.0	56.1	43.9
<b>35-39</b>	10,442	276.7	#	2,889	1,540	1,349
			%	100.0	53.3	46.7
<b>40-44</b>	1,640	313.4	#	514	299	215
			%	100.0	58.2	41.8
<b>≥ 45</b>	56	428.6	#	24	20	4
			%	100.0	83.3	16.7
<b>UNKNOWN</b>	4	250.0	#	1	1	0
			%	100.0	100.0	0.0

**TABLE B-9**  
**BIRTHWEIGHT IN GRAMS BY MOTHER'S AGE**  
**NUMBER AND RATE PER THOUSAND LIVE BIRTHS**  
**MASSACHUSETTS RESIDENT BIRTHS: 1992**

Birthweight (in grams)	Total	Mother's Age											Unknown
		<15	15	16	17	18	19	20-24	25-29	30-34	35-39	40-44	>45
<b>Total</b>	<b>#</b>	87,202	341	782	1,327	1,753	2,352	15,867	26,799	25,719	10,442	1,640	56
<500	#	115	0	1	6	2	3	19	32	39	12	0	0
	Rate	1.3	0.0	1.3	4.5	1.1	1.3	1.2	1.2	1.5	1.1	0.0	0.0
500-999	#	302	2	9	5	7	8	53	70	90	48	10	0
	Rate	3.5	5.9	11.5	3.8	4.0	3.4	3.3	2.6	3.5	4.6	6.1	0.0
1000-1499	#	470	2	8	3	13	17	94	125	134	58	10	2
	Rate	5.4	5.9	10.2	2.3	7.4	7.2	5.9	4.7	5.2	5.6	6.1	35.7
<b>VLBW <sup>1</sup></b>	<b>#</b>	887	4	18	14	22	28	166	227	263	118	20	2
	Rate	10.2	11.7	23.0	10.6	12.5	11.9	10.5	8.5	10.2	11.3	12.2	35.7
1500-1999	#	989	3	12	23	23	41	162	253	301	150	12	1
	Rate	11.3	23.5	15.3	17.3	13.1	17.4	10.2	9.4	11.7	14.4	7.3	17.9
2000-2499	#	3,261	9	48	76	68	116	659	863	910	406	83	4
	Rate	37.4	55.7	61.4	57.3	38.8	49.3	41.5	32.2	35.4	38.9	50.6	71.4
<b>LBW <sup>2</sup></b>	<b>#</b>	5,137	31	78	113	113	185	987	1,343	1,474	674	115	7
	Rate	58.9	90.9	99.7	85.2	64.5	78.7	62.2	50.1	57.3	64.5	70.1	125.0
2500-2999	#	12,795	72	162	290	342	457	2,769	3,763	3,274	1,382	255	7
	Rate	146.7	211.1	207.2	218.5	195.1	194.3	174.5	140.4	127.3	132.3	155.5	125.0
3000-3499	#	30,739	141	311	513	708	902	5,917	9,477	8,725	3,439	533	21
	Rate	352.5	413.5	397.7	386.6	403.9	383.5	372.9	353.6	339.2	329.3	325.0	375.0
3500-3999	#	27,261	73	177	329	450	620	4,538	8,664	8,533	3,353	485	15
	Rate	312.6	214.1	226.3	247.9	256.7	263.6	286.0	323.3	331.8	321.1	295.7	267.9
4000-4499	#	9,318	22	42	60	118	162	1,380	2,953	3,083	1,283	203	5
	Rate	106.9	64.5	53.7	45.2	67.3	68.9	87.0	110.2	119.9	122.9	123.8	89.3
4500-4999	#	1,599	1	8	16	16	21	218	494	520	264	39	1
	Rate	18.3	2.9	10.2	12.1	9.1	8.9	13.7	18.4	20.2	25.3	23.8	17.9
>5000	#	150	0	0	1	0	1	23	50	52	22	1	0
	Rate	1.7	0.0	0.0	0.8	0.0	0.4	1.4	1.9	2.0	2.1	0.6	0.0
Unknown	#	203	1	4	5	6	4	35	55	58	25	9	0
	Rate	2.3	2.9	5.1	3.8	3.4	1.7	2.2	2.1	2.3	2.4	5.5	0.0

<sup>1</sup> Very Low Birthweight: < 1,500 grams or 3.3 pounds.

<sup>2</sup> Low Birthweight: < 2,500 grams or 5.5 pounds.



**TECHNICAL NOTES FOR TABLE B-10**  
**HOSPITAL PROFILES**  
**MASSACHUSETTS OCCURRENCE BIRTHS**  
**1992**

The figures in the "Occurrence Births" column for each of the 57 birthing hospitals/birthing centers indicate the total number of births that occurred at each facility as reported to the Massachusetts Department of Public Health. Percents shown in this column indicate the percentage of the total Massachusetts births occurring at each facility.

Each race/ethnicity category by individual facility should be regarded as a separate entity.

Example: Brigham and Women's Hospital reported 8,893 occurrence births in 1992.

- Of these, 64.4% were to white non-Hispanic women, 16.2% were to black non-Hispanic women, 13.6% were to Hispanic women, 4.1% were to Asian women, etc.
- Of the 64.4% of births to white non-Hispanic mothers, 25.8% of these babies were delivered by Caesarean Section (968 primary C-Section deliveries and 500 repeat C-Section deliveries).
- The percent of low birthweight (less than 2,500 grams) babies born to white non-Hispanic mothers was 11.2%.
- Adequate prenatal care was received by 96.1% of white non-Hispanic mothers at Brigham and Women's Hospital. The adequacy of prenatal care variable is based on two factors: the month a woman registers for prenatal care and the total number of visits for prenatal care. Please refer to the definitions at the beginning of this section for further explanation.
- Of the white non-Hispanic mothers who gave birth at Brigham and Women's Hospital, 74.3% breast-fed their babies and 89.5% paid for their babies' deliveries by private insurer (Blue Cross/Blue Shield, etc.).

**Additional Notes:**

1. Percents may not sum to 100.0 due to rounding.
2. --Zero events are indicated by dashes.
3. Calculations based on fewer than 10 births per race category in all columns other than "% Total" are indicated by "\*\*\*\*" across the entire row. In these cases, only the percent of births by race of mother is presented.
4. Calculations based on fewer than 5 Caesarean-section births per race category are indicated by "\*\*\*\*" in the "% Total" column.

**TABLE B-10  
HOSPITAL PROFILES  
MASSACHUSETTS OCCURRENCE BIRTHS  
1992**

HOSPITAL NAME City/Town	Occurrence Births	Percent of Births by Mother's Race/Ethnicity	Method of Delivery			% Low Birth Weight	% Adequate Prenatal Care	% Mothers Breast Feeding	Delivery Method of Payment		
			Caesarean						% Private	% Public	% Free or Self Paid
			% Total	# Primary	# Repeat						
ADDISON GILBERT Gloucester	277 0.3%	TOTAL	18.1	28	22	4.3	91.3	45.8	67.9	29.6	1.4
		White Non-Hisp.	18.2	28	22	4.4	91.6	45.3	67.9	29.6	1.5
		Black Non-Hisp.	**	0	0	**	**	**	**	**	**
		Hispanic	**	**	**	**	**	**	**	**	**
		Asian	**	0	0	**	**	**	**	**	**
		Other	**	**	**	**	**	**	**	**	**
ANNA JAQUES Newburyport	957 1.1%	TOTAL	14.5	103	36	3.8	89.3	66.9	76.0	21.8	1.6
		White Non-Hisp.	14.9	101	36	3.8	89.9	66.9	77.1	20.8	1.4
		Black Non-Hisp.	**	0	0	**	**	**	**	**	**
		Hispanic	**	0	0	**	75.0	70.0	40.0	60.0	**
		Asian	**	2	0	**	**	**	**	**	**
		Other	**	**	**	**	**	**	**	**	**
BAYSTATE MEDICAL CENTER Springfield	6,092 6.9%	TOTAL	24.0	896	564	7.8	75.8	52.9	60.6	37.5	1.8
		White Non-Hisp.	24.9	631	390	6.2	82.8	59.0	76.7	21.6	1.5
		Black Non-Hisp.	22.8	96	67	13.2	58.1	38.9	32.8	64.1	3.1
		Hispanic	20.9	146	94	10.4	63.3	40.7	21.8	76.7	1.4
		Asian	28.7	18	11	6.9	63.4	45.5	52.5	40.6	6.9
		Other	21.7	3	2	13.0	82.6	52.2	43.5	56.5	**
BERKSHIRE MEDICAL CENTER Pittsfield	1,135 1.3%	TOTAL	21.9	151	98	5.5	67.4	57.9	70.6	26.0	1.5
		White Non-Hisp.	21.9	138	94	5.3	69.0	57.6	72.8	23.9	1.4
		Black Non-Hisp.	20.6	3	4	8.8	41.2	29.4	29.4	67.6	2.9
		Hispanic	**	3	0	**	41.2	94.1	41.2	58.8	**
		Asian	33.3	5	0	13.3	73.3	93.3	66.7	13.3	6.7
		Other	**	2	0	**	**	**	**	**	**
BETH ISRAEL Boston	5,579 6.3%	TOTAL	19.6	748	346	5.3	85.0	70.8	77.9	21.3	0.8
		White Non-Hisp.	20.9	505	235	4.2	92.0	76.4	92.5	6.9	0.6
		Black Non-Hisp.	18.6	136	68	9.2	67.6	60.1	50.8	48.7	0.5
		Hispanic	14.7	36	23	5.2	75.8	79.8	59.4	38.9	1.7
		Asian	15.9	63	15	4.7	82.0	47.8	49.6	48.4	2.0
		Other	26.2	6	5	4.8	73.8	69.0	66.7	33.3	**
BEVERLY Beverly	2,525 2.8%	TOTAL	19.3	290	198	3.5	80.2	68.6	81.8	15.9	1.5
		White Non-Hisp.	19.6	271	182	3.4	82.3	68.4	85.8	11.7	1.6
		Black Non-Hisp.	17.4	4	4	6.5	56.5	63.0	56.5	41.3	2.2
		Hispanic	18.9	13	10	1.6	54.9	77.0	23.0	76.2	**
		Asian	**	2	1	13.2	63.2	57.9	60.5	39.5	**
		Other	**	0	1	**	**	**	**	**	**

**TABLE B-10 (continued)  
HOSPITAL PROFILES  
MASSACHUSETTS OCCURRENCE BIRTHS  
1992**

HOSPITAL NAME City/Town	Occurrence Births	Percent of Births by Mother's Race/Ethnicity	Method of Delivery			% Low Birth Weight	% Adequate Prenatal Care	% Mothers Breast Feeding	Delivery Method of Payment		
			Caesarean		% Private				% Public	% Free or Self Paid	
			% Total	# Primary							# Repeat
BOSTON CITY Boston	1,448 1.6%	TOTAL	20.9	207	96	12.8	49.0	47.1	22.0	68.9	8.8
		White Non-Hisp.	20.9	31	16	13.3	48.4	26.7	32.0	56.4	11.1
		Black Non-Hisp.	21.0	126	60	13.8	48.4	47.2	22.6	68.9	8.2
		Hispanic	22.7	43	18	7.4	52.8	67.7	13.8	78.8	7.4
		Asian	13.8	7	2	18.5	43.1	29.2	13.8	70.8	15.4
		Other	0.3	0	0	**	**	**	**	**	**
Unknown	--	--	--	--	--	--	--	--	--	--	
BRIGHAM AND WOMEN'S Boston	8,893 10.0%	TOTAL	24.0	1,365	746	11.9	92.3	71.9	77.0	15.7	3.9
		White Non-Hisp.	25.8	968	500	11.2	96.1	74.3	89.5	5.7	1.2
		Black Non-Hisp.	19.3	179	96	16.9	81.6	61.6	61.0	33.2	2.8
		Hispanic	21.3	138	116	10.2	87.6	69.9	37.8	43.8	16.8
		Asian	21.7	55	23	7.9	91.0	79.7	83.0	7.4	4.7
		Other	23.0	23	11	11.8	88.8	77.6	57.9	26.3	12.5
Unknown	0.1	--	2	0	--	--	--	--	--	--	
BROCKTON Brockton	1,415 1.6%	TOTAL	21.8	195	114	5.2	71.0	48.2	64.9	32.7	2.0
		White Non-Hisp.	21.9	153	93	4.7	75.8	48.3	73.7	24.4	1.8
		Black Non-Hisp.	22.1	24	9	8.1	51.7	49.0	32.9	63.1	4.0
		Hispanic	14.7	6	4	5.9	50.0	38.2	22.1	76.5	1.5
		Asian	**	2	2	--	61.1	55.6	66.7	33.3	--
		Other	29.6	10	6	5.6	51.9	55.6	25.9	68.5	3.7
Unknown	0.4	--	0	0	--	--	--	--	--	--	
BURBANK Fitchburg	834 0.9%	TOTAL	12.5	70	34	2.9	76.9	56.0	52.2	46.6	1.0
		White Non-Hisp.	12.0	56	25	2.7	81.3	56.6	58.8	39.8	1.0
		Black Non-Hisp.	15.0	6	0	2.5	55.0	32.5	12.5	85.0	2.5
		Hispanic	17.6	7	8	4.7	60.0	65.9	20.0	80.0	--
		Asian	**	1	1	3.0	57.6	45.5	48.5	51.5	--
		Other	**	0	0	**	**	**	**	**	**
Unknown	0.4	--	--	--	--	--	--	--	--	--	
CAMBRIDGE Cambridge	907 1.0%	TOTAL	13.2	78	42	4.0	62.3	61.3	18.6	75.6	4.3
		White Non-Hisp.	16.2	33	16	4.6	71.9	41.6	33.0	58.4	7.3
		Black Non-Hisp.	19.2	18	11	6.0	56.3	68.9	21.2	72.2	5.3
		Hispanic	9.6	24	14	3.0	61.2	77.2	6.1	90.1	2.3
		Asian	**	2	1	1.8	34.5	38.2	23.6	76.4	--
		Other	**	1	0	**	**	**	**	**	**
Unknown	0.1	--	0	0	--	--	--	--	--	--	
CAPE COD Barnstable	1,210 1.4%	TOTAL	22.9	166	111	4.2	77.7	70.2	63.8	32.7	2.9
		White Non-Hisp.	21.9	142	100	3.9	79.4	70.8	67.4	29.0	3.0
		Black Non-Hisp.	**	1	3	13.6	63.6	50.0	31.8	68.2	--
		Hispanic	38.0	14	5	6.0	64.0	74.0	26.0	74.0	--
		Asian	0.5	2	0	**	**	**	**	**	--
		Other	2.1	7	3	3.8	46.2	57.7	11.5	80.8	7.7
Unknown	0.2	--	0	0	--	--	--	--	--	--	

TABLE B-10 (continued)  
HOSPITAL PROFILES  
MASSACHUSETTS OCCURRENCE BIRTHS  
1992

HOSPITAL NAME City/Town	Occurrence Births	Percent of Births by Mother's Race/Ethnicity	Method of Delivery			% Low Birth Weight	% Adequate Prenatal Care	% Mothers Breast Feeding	Delivery Method of Payment		
			Caesarean						% Private	% Public	% Free or Self Paid
			% Total	# Primary	# Repeat						
CHARLTON MEMORIAL Fall River	1,864 2.1%	TOTAL 100.0 White Non-Hisp. 95.2 Black Non-Hisp. 1.6 Hispanic 1.1 Asian 2.1 Other -- Unknown --	20.8 21.2 24.1 -- -- -- -- --	230 223 2 2 3 -- --	158 153 5 0 0 -- --	5.7 5.7 -- 9.5 7.5 -- --	79.7 81.2 55.2 66.7 35.0 -- --	35.0 35.4 31.0 52.4 10.0 -- --	61.3 63.4 24.1 14.3 20.0 -- --	38.0 35.9 75.9 85.7 80.0 -- --	0.6 0.7 -- -- -- -- --
COOLEY-DICKINSON Northampton	1,031 1.2%	TOTAL 100.0 White Non-Hisp. 85.8 Black Non-Hisp. 2.3 Hispanic 5.7 Asian 5.4 Other 0.6 Unknown 0.1	19.9 20.0 29.2 20.3 16.1 -- -- --	136 120 2 6 8 0 0	69 57 5 6 1 0 0	2.5 2.3 8.3 3.4 3.6 -- --	88.8 91.5 70.8 67.8 80.4 -- --	75.2 75.4 62.5 69.5 80.4 -- --	78.6 82.0 50.0 44.1 71.4 -- --	21.1 17.7 50.0 55.9 26.8 -- --	0.3 0.2 -- -- 1.8 -- --
EMERSON Concord	1,765 2.0%	TOTAL 100.0 White Non-Hisp. 93.3 Black Non-Hisp. 1.3 Hispanic 2.2 Asian 2.9 Other 0.2 Unknown 0.1	20.3 19.9 39.1 15.4 27.5 -- -- --	235 217 5 2 11 0 0	123 111 4 4 3 1 0	2.8 2.9 4.3 2.6 2.0 -- --	90.5 90.5 78.3 87.2 98.0 -- --	82.0 81.9 69.6 84.6 86.3 -- --	86.7 88.2 43.5 61.5 82.4 -- --	12.0 10.5 52.2 35.9 17.6 -- --	1.0 1.0 4.3 2.6 -- -- --
FAIRVIEW Great Barrington	190 0.2%	TOTAL 100.0 White Non-Hisp. 96.8 Black Non-Hisp. 2.1 Hispanic -- Asian -- Other 0.5 Unknown 0.5	30.5 31.5 -- -- -- -- -- --	42 42 0 -- -- 0 0	16 16 0 -- -- 0 0	3.7 3.3 -- -- -- -- --	71.1 71.7 -- -- -- -- --	66.3 67.4 -- -- -- -- --	57.4 58.7 -- -- -- -- --	35.3 33.7 -- -- -- -- --	6.8 7.1 -- -- -- -- --
FALMOUTH Falmouth	557 0.6%	TOTAL 100.0 White Non-Hisp. 90.3 Black Non-Hisp. 6.1 Hispanic 1.4 Asian 0.9 Other 1.1 Unknown 0.2	29.9 29.8 27.3 -- -- -- -- --	101 90 5 1 3 2 0	64 59 4 0 1 0 0	5.2 4.4 17.6 -- -- -- --	93.4 93.6 94.1 -- -- -- --	87.1 88.7 64.7 -- -- -- --	58.0 60.4 26.5 -- -- -- --	38.2 36.0 70.6 -- -- -- --	3.6 3.6 2.9 -- -- -- --
FRANKLIN MEDICAL CENTER Greenfield	672 0.8%	TOTAL 100.0 White Non-Hisp. 95.2 Black Non-Hisp. 0.4 Hispanic 2.1 Asian 1.2 Other 0.9 Unknown 0.1	18.5 18.1 -- -- -- -- -- --	74 69 0 3 1 0 1	50 47 1 1 1 0 0	2.2 2.2 -- -- -- -- --	82.9 83.6 64.3 -- -- -- --	71.0 71.4 57.1 -- -- -- --	64.6 66.1 35.7 -- -- -- --	32.9 31.4 64.3 -- -- -- --	1.8 1.7 -- -- -- -- --

TABLE B-10 (continued)  
HOSPITAL PROFILES  
MASSACHUSETTS OCCURRENCE BIRTHS  
1992

HOSPITAL NAME City/Town	Occurrence Births	Percent of Births by Mother's Race/Ethnicity	Method of Delivery			% Low Birth Weight	% Adequate Prenatal Care	% Mothers Breast Feeding	Delivery Method of Payment			
			Caesarean						% Private	% Public	% Free or Self Paid	
			% Total	# Primary	# Repeat							
GODDARD MEMORIAL Stoughton	1,655 1.9%	TOTAL	100.0	21.6	235	122	3.0	70.3	49.5	66.6	32.1	1.1
		White Non-Hisp.	78.6	21.8	179	104	2.4	73.6	48.9	72.9	26.8	1.0
		Black Non-Hisp.	7.7	25.8	25	8	7.0	61.7	47.7	43.0	66.5	1.6
		Hispanic	4.0	18.2	9	3	4.5	48.5	51.5	25.8	74.2	--
		Asian	2.2	25.0	5	4	2.8	72.2	44.4	75.0	79.4	6.6
		Other	7.0	13.8	15	1	4.3	53.4	57.8	39.7	59.5	0.9
Unknown	0.5	--	2	2	--	--	--	--	--	--	--	
HALE Haverhill	791 0.9%	TOTAL	100.0	19.6	113	42	3.2	80.3	49.7	60.1	38.3	1.4
		White Non-Hisp.	84.5	19.5	96	34	3.3	82.2	46.9	64.8	33.2	1.6
		Black Non-Hisp.	1.5	--	4	0	--	58.3	41.7	50.0	50.0	--
		Hispanic	12.3	20.6	12	8	3.1	72.2	68.0	25.8	74.2	--
		Asian	1.4	--	0	0	--	63.6	63.6	81.8	18.2	--
		Other	0.4	--	1	0	--	--	--	--	--	--
Unknown	--	--	--	--	--	--	--	--	--	--	--	
HARRINGTON MEMORIAL Southbridge	537 0.6%	TOTAL	100.0	27.2	95	51	5.2	77.3	46.7	48.2	49.7	1.9
		White Non-Hisp.	83.1	28.9	84	45	5.2	81.2	45.7	53.4	44.2	2.2
		Black Non-Hisp.	0.2	--	0	0	--	--	--	--	--	--
		Hispanic	14.5	19.2	9	6	5.1	56.4	52.6	17.9	82.1	--
		Asian	1.9	--	2	0	10.0	80.0	50.0	50.0	50.0	--
		Other	0.4	--	0	0	--	--	--	--	--	--
Unknown	--	--	--	--	--	--	--	--	--	--	--	
HENRY HEYWOOD MEMORIAL Gardner	338 0.4%	TOTAL	100.0	25.1	50	35	2.7	72.5	43.8	49.7	45.9	0.6
		White Non-Hisp.	97.0	24.7	47	34	2.7	72.9	43.6	49.7	45.7	0.6
		Black Non-Hisp.	0.6	--	0	1	--	--	--	--	--	--
		Hispanic	0.9	--	2	0	--	--	--	--	--	--
		Asian	1.2	--	1	0	--	--	--	--	--	--
		Other	0.3	--	0	0	--	--	--	--	--	--
Unknown	--	--	--	--	--	--	--	--	--	--	--	
HOLY FAMILY Methuen	943 1.1%	TOTAL	100.0	23.6	110	113	3.3	74.2	52.7	64.1	31.4	3.7
		White Non-Hisp.	75.8	23.2	76	90	2.9	77.9	48.7	74.7	20.1	4.1
		Black Non-Hisp.	1.3	--	2	1	--	66.7	33.3	16.7	75.0	8.3
		Hispanic	21.5	24.1	29	20	3.9	62.6	67.0	27.6	70.0	2.5
		Asian	1.4	38.5	3	2	15.4	61.5	69.2	92.3	7.7	--
		Other	--	--	--	--	--	--	--	--	--	--
Unknown	--	--	--	--	--	--	--	--	--	--	--	
JORDAN Plymouth	974 1.1%	TOTAL	100.0	22.9	115	108	2.5	81.0	66.4	72.7	26.0	0.6
		White Non-Hisp.	94.9	23.5	112	105	2.4	81.4	66.5	74.1	24.5	0.6
		Black Non-Hisp.	1.5	--	2	0	6.7	93.3	53.3	33.3	66.7	--
		Hispanic	1.7	--	0	1	--	64.7	76.5	47.1	52.9	--
		Asian	0.7	--	0	0	--	--	--	--	--	--
		Other	1.1	--	1	2	--	72.7	63.6	36.4	63.6	--
Unknown	--	--	--	--	--	--	--	--	--	--	--	

**TABLE B-10 (continued)  
HOSPITAL PROFILES  
MASSACHUSETTS OCCURRENCE BIRTHS  
1992**

HOSPITAL NAME City/Town	Occurrence Births	Percent of Births by Mother's Race/Ethnicity	Method of Delivery			% Low Birth Weight	% Adequate Prenatal Care	% Mothers Breast Feeding	Delivery Method of Payment		
			Caesarean						% Private	% Public	% Free or Self Paid
			% Total	# Primary	# Repeat						
LAWRENCE GENERAL Lawrence	1,755 2.0%	TOTAL	24.7	225	208	6.1	94.9	54.0	51.7	45.4	1.8
		White Non-Hisp.	26.2	139	105	6.0	97.2	48.9	79.6	16.5	2.6
		Black Non-Hisp.	**	2	2	5.0	90.0	65.0	60.0	40.0	--
		Hispanic	23.3	76	97	6.2	92.3	59.6	15.6	83.3	0.5
		Asian	15.1	6	2	5.7	96.2	62.3	64.2	26.4	5.7
		Other	**	2	2	**	**	**	**	**	**
		Unknown	**	0	0	**	**	**	**	**	**
LEOMINSTER Leominster	1,429 1.6%	TOTAL	19.2	158	117	2.2	80.5	62.1	67.7	31.4	0.8
		White Non-Hisp.	19.1	127	92	2.1	83.1	63.0	74.8	24.5	0.6
		Black Non-Hisp.	22.2	9	5	4.8	66.7	52.4	28.6	71.4	--
		Hispanic	22.1	19	17	3.1	74.8	63.8	38.7	61.3	--
		Asian	10.4	2	3	--	58.3	50.0	54.2	39.6	6.2
		Other	**	1	0	**	**	**	**	**	**
		Unknown	**	0	0	**	**	**	**	**	**
LOWELL GENERAL Lowell	2,315 2.6%	TOTAL	17.1	227	169	4.4	83.0	47.1	60.3	39.0	0.6
		White Non-Hisp.	19.7	183	141	3.3	88.5	51.0	71.4	27.7	0.6
		Black Non-Hisp.	15.4	6	2	3.8	59.6	48.1	38.5	59.6	1.9
		Hispanic	11.2	16	14	6.0	76.4	43.8	23.2	76.0	0.7
		Asian	9.7	22	12	8.3	65.6	30.7	39.8	60.2	--
		Other	**	0	0	**	**	**	**	**	--
		Unknown	**	**	**	**	**	**	**	**	--
MALDEN Malden	1,674 1.9%	TOTAL	27.6	280	182	4.1	77.7	44.3	69.7	26.8	3.6
		White Non-Hisp.	29.0	238	164	3.5	82.0	42.8	75.0	21.9	3.1
		Black Non-Hisp.	28.8	13	8	13.7	58.9	58.9	52.1	42.5	5.5
		Hispanic	20.8	9	7	3.9	61.0	63.6	40.3	54.5	5.2
		Asian	14.9	15	2	2.6	49.1	38.6	42.1	52.6	5.3
		Other	31.6	5	1	15.8	68.4	63.2	31.6	52.6	15.8
		Unknown	**	0	0	**	**	**	**	**	**
MARTHA'S VINEYARD Oak Bluffs	131 0.1%	TOTAL	22.1	19	10	3.1	84.0	79.4	70.2	27.5	2.3
		White Non-Hisp.	18.1	12	9	2.6	87.9	81.0	73.3	24.1	2.6
		Black Non-Hisp.	**	3	1	**	**	**	**	**	**
		Hispanic	**	1	0	**	**	**	**	**	**
		Asian	**	**	**	**	**	**	**	**	**
		Other	**	2	0	**	**	**	**	**	**
		Unknown	**	1	0	**	**	**	**	**	**
MARY LANE Ware	135 0.2%	TOTAL	20.7	19	9	3.0	74.8	53.3	69.6	28.1	2.2
		White Non-Hisp.	21.4	19	9	1.5	75.6	52.7	71.0	26.7	2.3
		Black Non-Hisp.	**	0	0	**	**	**	**	**	**
		Hispanic	**	0	0	**	**	**	**	**	**
		Asian	**	**	**	**	**	**	**	**	**
		Other	**	**	**	**	**	**	**	**	**
		Unknown	**	**	**	**	**	**	**	**	**

**TABLE B-10 (continued)  
HOSPITAL PROFILES  
MASSACHUSETTS OCCURRENCE BIRTHS  
1992**

HOSPITAL NAME City/Town	Occurrence Births	Percent of Births by Mother's Race/Ethnicity	Method of Delivery			% Low Birth Weight	% Adequate Prenatal Care	% Mothers Breast Feeding	Delivery Method of Payment		
			Caesarean		# Repeat				% Private	% Public	% Free or Self Paid
			% Total	# Primary							
MEDICAL CENTER OF CENTRAL MASSACHUSETTS --MEMORIAL Worcester <sup>1</sup>	3,914 4.4%	TOTAL	21.7	496	353	9.8	91.8	56.0	69.5	27.3	3.1
		White Non-Hisp.	21.8	427	292	9.1	93.7	57.0	77.5	19.4	3.0
		Black Non-Hisp.	27.1	25	13	17.1	79.3	46.4	33.6	60.0	5.7
		Hispanic	19.0	32	43	11.4	84.1	52.7	21.3	75.4	3.3
		Asian	17.8	10	3	20.5	78.1	43.8	46.6	54.8	1.4
		Other	--	2	2	8.3	75.0	58.3	50.0	--	--
		Unknown	--	0	0	--	--	--	--	--	--
MELROSE- WAKEFIELD Melrose	1,299 1.5%	TOTAL	30.9	211	191	3.2	95.5	49.7	81.8	15.2	1.4
		White Non-Hisp.	31.5	197	186	3.1	96.4	48.6	82.2	15.0	1.2
		Black Non-Hisp.	33.3	5	1	11.1	94.4	77.8	72.2	27.8	--
		Hispanic	30.0	3	3	5.0	85.0	65.0	80.0	20.0	--
		Asian	2.7	4	1	--	77.1	62.9	80.0	11.4	8.6
		Other	--	2	0	--	--	--	--	--	--
		Unknown	--	0	0	--	--	--	--	--	--
METROWEST MEDICAL CENTER-- FRAMINGHAM UNION CAMPUS Framingham <sup>2</sup>	2,335 2.6%	TOTAL	25.9	365	240	4.0	94.5	68.8	80.5	17.7	1.8
		White Non-Hisp.	25.6	300	205	3.6	96.2	68.5	86.2	12.2	1.6
		Black Non-Hisp.	28.3	10	7	13.3	83.3	66.7	55.0	43.3	1.7
		Hispanic	29.0	37	25	3.3	82.7	72.0	36.9	60.7	2.3
		Asian	24.3	15	3	6.8	91.9	73.0	81.1	14.9	4.1
		Other	--	3	0	7.1	92.9	57.1	50.0	50.0	--
		Unknown	--	--	--	--	--	--	--	--	--
METROWEST MEDICAL CENTER-- LEONARD MORSE Natick <sup>3</sup>	802 0.9%	TOTAL	24.6	124	73	1.9	92.6	66.1	81.7	16.0	1.1
		White Non-Hisp.	23.8	106	63	1.3	92.9	64.5	84.1	13.7	1.0
		Black Non-Hisp.	--	2	0	--	--	--	--	--	--
		Hispanic	42.2	10	9	6.7	86.7	80.0	44.4	53.3	2.2
		Asian	--	2	1	6.5	93.5	90.3	90.3	3.2	3.2
		Other	--	2	0	--	--	--	--	--	--
		Unknown	--	2	0	--	--	--	--	--	--
MILFORD- WHITINSVILLE Milford	420 0.5%	TOTAL	23.3	58	40	3.3	66.0	50.0	67.6	31.2	1.0
		White Non-Hisp.	23.5	56	37	3.5	67.9	50.0	68.9	29.8	1.0
		Black Non-Hisp.	--	0	0	--	--	--	--	--	--
		Hispanic	38.5	2	3	--	38.5	61.5	53.8	46.2	--
		Asian	--	0	0	--	--	--	--	--	--
		Other	--	--	--	--	--	--	--	--	--
		Unknown	0.2	0	0	--	--	--	--	--	--

<sup>1</sup> Formerly Worcester Memorial Hospital; new name effective October 1, 1989.

<sup>2</sup> Formerly Framingham Union Hospital; new name effective January 1, 1992.

<sup>3</sup> Formerly Leonard Morse Hospital; new name effective January 1, 1992.

**TABLE B-10 (continued)  
HOSPITAL PROFILES  
MASSACHUSETTS OCCURRENCE BIRTHS  
1992**

HOSPITAL NAME City/Town	Occurrence Births	Percent of Births by Mother's Race/Ethnicity	Method of Delivery			% Low Birth Weight	% Adequate Prenatal Care	% Mothers Breast Feeding	Delivery Method of Payment		
			Caesarean						% Private	% Public	% Free or Self Paid
			% Total	# Primary	# Repeat						
MORTON Taunton	745 0.8%	TOTAL	100.0	149	125	4.3	83.5	40.1	64.4	33.6	0.1
		White Non-Hisp.	88.2	129	113	3.3	85.8	40.8	69.3	28.8	0.2
		Black Non-Hisp.	3.6	7	3	14.8	66.7	18.5	22.2	77.8	--
		Hispanic	5.4	8	7	10.0	67.5	45.0	20.0	75.0	--
		Asian	0.8	1	0	--	--	--	--	--	--
		Other	1.9	4	2	7.1	57.1	28.6	42.9	57.1	--
Unknown	0.1	--	0	0	--	--	--	--	--	--	
MOUNT AUBURN Cambridge	1,613 1.8%	TOTAL	100.0	185	88	2.7	86.5	72.4	73.8	23.4	1.4
		White Non-Hisp.	72.0	131	62	2.5	89.6	70.9	81.3	16.6	0.7
		Black Non-Hisp.	8.9	21	10	3.5	81.2	71.5	56.9	39.6	2.1
		Hispanic	9.8	18	12	2.5	74.1	80.4	34.8	61.4	3.8
		Asian	5.5	7	3	2.3	87.5	93.2	84.1	11.4	2.3
		Other	0.9	0	1	7.1	92.9	78.6	50.0	50.0	--
Unknown	3.0	17.0	8	0	6.2	66.7	45.8	60.4	29.2	6.2	
NANTUCKET COTTAGE Nantucket	75 0.1%	TOTAL	100.0	7	6	4.0	85.3	81.3	77.3	17.3	4.0
		White Non-Hisp.	96.0	7	6	4.2	84.7	80.6	77.8	16.7	4.2
		Black Non-Hisp.	1.3	0	0	--	--	--	--	--	--
		Hispanic	2.7	0	0	--	--	--	--	--	--
		Asian	--	--	--	--	--	--	--	--	--
		Other	--	--	--	--	--	--	--	--	--
Unknown	--	--	--	--	--	--	--	--	--	--	
NEW ENGLAND MEDICAL CENTER Boston <sup>4</sup>	606 0.7%	TOTAL	100.0	137	62	29.4	79.2	54.5	69.1	28.4	2.1
		White Non-Hisp.	65.0	107	50	32.0	82.5	51.5	77.7	20.3	2.0
		Black Non-Hisp.	12.5	10	5	26.3	75.0	68.4	72.4	25.0	1.3
		Hispanic	9.4	8	4	33.3	68.4	64.9	29.8	64.9	5.3
		Asian	8.6	7	2	13.5	67.3	32.7	50.0	48.1	1.9
		Other	4.0	5	1	25.0	91.7	79.2	58.3	37.5	--
Unknown	0.5	--	0	0	--	--	--	--	--	--	
NEW ENGLAND MEMORIAL Stoneham	1,097 1.2%	TOTAL	100.0	179	105	3.0	93.3	63.6	89.0	8.8	0.9
		White Non-Hisp.	95.4	170	104	2.9	93.7	62.5	89.4	8.5	0.8
		Black Non-Hisp.	0.8	1	0	--	--	--	--	--	--
		Hispanic	1.5	2	0	6.2	75.0	81.2	68.7	31.2	--
		Asian	1.5	5	0	11.8	82.4	82.4	88.2	--	5.9
		Other	0.5	1	0	--	--	--	--	--	--
Unknown	0.3	--	0	1	--	--	--	--	--	--	

<sup>4</sup> Opened July 1, 1992.



TABLE B-10 (continued)  
HOSPITAL PROFILES  
MASSACHUSETTS OCCURRENCE BIRTHS  
1992

HOSPITAL NAME City/Town	Occurrence Births	Percent of Births by Mother's Race/Ethnicity	Method of Delivery			% Low Birth Weight	% Adequate Prenatal Care	% Mothers Breast Feeding	Delivery Method of Payment			
			Caesarean		% Private				% Public	% Free or Self Paid		
			% Total	# Primary							# Repeat	
NEWTON- WELLESLEY Newton	3,878 4.4%	TOTAL	100.0	19.7	484	280	3.3	89.3	74.2	94.0	2.7	1.1
		White Non-Hisp.	94.5	19.5	452	264	3.2	89.5	73.6	94.5	2.3	1.0
		Black Non-Hisp.	1.1	14.6	3	3	4.9	82.9	80.5	78.0	22.0	--
		Hispanic	1.2	14.6	4	3	--	81.2	79.2	81.2	14.6	--
		Asian	2.8	29.6	23	9	4.6	88.9	87.0	92.6	1.9	1.9
		Other	0.4	--	2	1	13.3	73.3	93.3	73.3	20.0	6.7
Unknown	0.0	--	0	0	--	--	--	--	--	--	--	
NORTH ADAMS REGIONAL North Adams	470 0.5%	TOTAL	100.0	17.9	54	30	4.9	86.4	54.9	61.1	37.2	1.1
		White Non-Hisp.	97.4	18.1	54	29	5.0	87.1	55.2	61.8	36.7	0.9
		Black Non-Hisp.	0.6	--	0	0	--	--	--	--	--	--
		Hispanic	1.3	--	0	1	--	--	--	--	--	--
		Asian	0.6	--	0	0	--	--	--	--	--	--
		Other	--	--	0	0	--	--	--	--	--	--
Unknown	--	--	--	--	--	--	--	--	--	--	--	
NORTH SHORE BIRTHING CENTER Beverly	109 0.1%	TOTAL	100.0	0.0	0	0	0.9	79.8	100.0	70.6	11.0	17.4
		White Non-Hisp.	97.2	--	0	0	0.9	81.1	100.0	72.6	10.4	16.0
		Black Non-Hisp.	--	--	--	--	--	--	--	--	--	--
		Hispanic	0.9	--	0	0	--	--	--	--	--	--
		Asian	1.8	--	0	0	--	--	--	--	--	--
		Other	--	--	--	--	--	--	--	--	--	--
Unknown	--	--	--	--	--	--	--	--	--	--	--	
NORTH SHORE MEDICAL CENTER-- SALEM HOSPITAL Salem <sup>5</sup>	2,327 2.6%	TOTAL	100.0	23.3	321	222	4.1	86.4	53.0	60.6	37.5	0.9
		White Non-Hisp.	73.9	23.7	254	153	3.6	91.2	51.0	73.8	23.9	1.0
		Black Non-Hisp.	5.9	19.7	15	12	5.8	75.2	43.8	26.3	73.7	--
		Hispanic	15.5	26.0	45	49	5.0	77.3	72.9	17.2	81.7	0.6
		Asian	4.1	11.5	5	6	7.3	55.2	26.0	37.5	61.5	--
		Other	0.3	--	2	2	--	--	--	--	--	--
Unknown	0.2	--	0	0	--	--	--	--	--	--	--	
NORWOOD Norwood	1,038 1.2%	TOTAL	100.0	22.1	135	94	2.1	97.5	58.2	88.3	10.6	1.0
		White Non-Hisp.	96.0	22.4	133	90	2.2	97.8	57.5	88.9	10.3	0.8
		Black Non-Hisp.	1.2	--	0	1	--	83.3	91.7	50.0	41.7	8.3
		Hispanic	0.9	--	0	2	--	--	--	--	--	--
		Asian	1.9	--	2	1	--	95.0	80.0	90.0	5.0	--
		Other	0.1	--	0	0	--	--	--	--	--	--
Unknown	--	--	--	--	--	--	--	--	--	--	--	

<sup>5</sup> Formerly Salem Hospital; new name effective November 1, 1992.

**TABLE B-10 (continued)  
HOSPITAL PROFILES  
MASSACHUSETTS OCCURRENCE BIRTHS  
1992**

HOSPITAL NAME City/Town	Occurrence Births	Percent of Births by Mother's Race/Ethnicity	Method of Delivery				% Low Birth Weight	% Adequate Prenatal Care	% Mothers Breast Feeding	Delivery Method of Payment		
			Caesarean			% Private				% Public	% Free or Self Paid	
			% Total	# Primary	# Repeat							
PROVIDENCE Holyoke	1,266 1.4%	TOTAL White Non-Hisp. Black Non-Hisp. Hispanic Asian Other Unknown	100.0 66.3 2.2 30.8 0.4 0.1 0.2	13.4 14.3 ** 11.5 ** ** **	98 77 2 18 1 0 0	72 43 1 27 0 0 1	3.8 3.7 10.7 3.3 ** ** **	58.1 64.0 46.4 46.2 ** ** **	48.3 50.8 42.9 43.8 ** ** **	44.7 62.6 25.0 7.7 ** ** **	52.8 34.1 71.4 91.8 ** ** **	1.3 1.7 3.6 0.3 ** ** **
QUINCY Quincy	1,078 1.2%	TOTAL White Non-Hisp. Black Non-Hisp. Hispanic Asian Other Unknown	100.0 88.0 3.5 2.2 4.2 2.0 --	21.1 21.0 26.3 33.3 17.8 ** --	142 118 9 7 6 2 --	85 81 1 1 2 0 --	3.2 2.8 10.5 -- 6.7 -- --	76.2 77.6 65.8 62.5 71.1 59.1 --	52.9 50.6 73.7 95.8 48.9 77.3 --	71.7 72.0 60.5 66.7 80.0 68.2 --	27.1 26.8 39.5 33.3 20.0 27.3 --	0.8 0.8 -- -- -- 4.5 --
SOUTH SHORE Weymouth	2,679 3.0%	TOTAL White Non-Hisp. Black Non-Hisp. Hispanic Asian Other Unknown	100.0 97.1 0.6 0.6 1.2 0.6 --	27.0 26.8 43.7 37.5 29.0 ** --	418 401 6 3 5 3 --	304 295 1 3 4 1 --	2.8 2.7 25.0 -- 3.2 -- --	93.5 93.5 93.7 81.2 93.5 93.3 --	65.9 65.6 75.0 81.2 83.9 66.7 --	95.3 95.5 81.2 100.0 87.1 100.0 --	3.2 3.1 18.7 -- 9.7 -- --	1.4 1.4 -- -- 3.2 -- --
ST. ELIZABETH'S Boston	1,109 1.2%	TOTAL White Non-Hisp. Black Non-Hisp. Hispanic Asian Other Unknown	100.0 61.5 10.5 14.4 13.6 -- --	29.1 31.1 34.5 25.0 20.5 -- --	177 111 26 22 18 -- --	146 101 14 18 13 -- --	2.4 2.5 0.9 2.5 3.3 -- --	85.7 90.6 77.6 75.6 80.1 -- --	64.0 58.7 77.6 87.5 53.0 -- --	69.7 78.0 59.5 41.9 69.5 -- --	29.3 21.1 39.7 56.9 29.1 -- --	0.9 0.7 0.9 1.2 1.3 -- --
ST. LUKE'S New Bedford	1,924 2.2%	TOTAL White Non-Hisp. Black Non-Hisp. Hispanic Asian Other Unknown	100.0 79.1 3.6 10.1 0.7 6.5 --	23.3 23.3 21.4 27.8 ** 19.0 --	262 213 8 30 0 11 --	186 141 7 24 1 13 --	5.4 4.7 4.3 8.2 7.7 9.5 --	73.3 78.0 67.1 48.5 84.6 57.1 --	37.7 38.2 31.4 35.6 30.8 38.9 --	53.1 61.4 27.1 11.9 61.5 30.2 --	44.1 35.7 70.0 87.1 15.4 68.3 --	1.7 1.8 1.4 1.0 23.1 -- --
ST. MARGARET'S Boston	2,020 2.3%	TOTAL White Non-Hisp. Black Non-Hisp. Hispanic Asian Other Unknown	100.0 59.2 21.1 8.9 6.2 4.5 --	29.8 33.4 24.8 29.4 18.3 23.1 --	395 250 75 39 16 15 --	207 149 31 14 7 6 --	17.8 18.6 15.2 23.9 13.5 12.1 --	72.0 81.5 57.4 66.1 53.2 53.8 --	47.3 43.3 57.4 57.2 25.4 63.7 --	52.1 67.6 32.1 23.3 30.2 28.6 --	45.5 30.4 64.4 74.4 67.5 67.0 --	1.4 1.3 1.9 0.6 1.6 2.2 --

**TABLE B-10 (continued)  
HOSPITAL PROFILES  
MASSACHUSETTS OCCURRENCE BIRTHS  
1992**

HOSPITAL NAME City/Town	Occurrence Births	Percent of Births by Mother's Race/Ethnicity	Method of Delivery			% Low Birth Weight	% Adequate Prenatal Care	% Mothers Breast Feeding	Delivery Method of Payment			
			Caesarean		% Private				% Public	% Free or Self Paid		
			% Total	# Primary							# Repeat	
ST. VINCENT Worcester	2,863 3.2%	TOTAL	100.0	15.3	313	124	3.6	87.9	61.6	78.7	20.2	1.0
		White Non-Hisp.	82.8	15.3	263	99	3.2	90.8	60.9	85.0	13.7	1.2
		Black Non-Hisp.	2.7	11.7	6	3	2.6	75.3	55.8	57.1	42.9	--
		Hispanic	9.6	17.8	33	16	6.2	72.0	70.9	38.2	61.5	0.4
		Asian	4.1	12.1	8	6	4.3	73.3	58.6	66.4	33.6	--
		Other	0.8	--	3	0	4.5	86.4	59.1	45.5	45.5	4.5
Unknown	0.1	--	0	0	--	--	--	--	--	--	--	
SAINTS MEMORIAL Lowell <sup>6</sup>	707 0.8%	TOTAL	100.0	21.4	91	60	5.1	75.5	45.7	73.8	19.7	2.0
		White Non-Hisp.	76.2	24.3	78	53	4.8	82.4	46.4	82.9	10.9	2.0
		Black Non-Hisp.	1.6	--	0	2	9.1	72.7	45.5	27.3	72.7	--
		Hispanic	11.0	12.8	7	3	6.4	57.7	47.4	24.4	64.1	2.6
		Asian	10.3	8.2	4	2	4.1	43.8	35.6	65.8	28.8	1.4
		Other	0.8	--	2	0	--	--	--	--	--	--
Unknown	--	--	--	--	--	--	--	--	--	--	--	
STURDY MEMORIAL Attleboro	910 1.0%	TOTAL	100.0	25.9	145	91	4.3	83.4	55.9	71.4	25.9	2.0
		White Non-Hisp.	90.8	25.9	133	81	4.1	85.5	55.9	73.2	24.1	1.9
		Black Non-Hisp.	1.5	--	3	1	7.1	64.3	28.6	57.1	42.9	--
		Hispanic	4.0	27.8	5	5	11.1	61.1	77.8	47.2	52.8	--
		Asian	3.1	17.9	3	2	--	67.9	39.3	64.3	32.1	3.6
		Other	0.7	--	1	2	--	--	--	--	--	--
Unknown	--	--	--	--	--	--	--	--	--	--	--	
TOBEY Wareham	494 0.6%	TOTAL	100.0	20.9	63	40	3.0	89.7	69.6	61.7	33.8	3.6
		White Non-Hisp.	93.1	21.1	59	38	2.6	90.0	70.9	64.1	31.3	3.9
		Black Non-Hisp.	1.6	--	1	1	--	--	--	--	--	--
		Hispanic	1.0	--	2	0	--	--	--	--	--	--
		Asian	--	--	--	--	--	--	--	--	--	--
		Other	4.0	--	1	1	15.0	90.0	45.0	35.0	65.0	--
Unknown	0.2	--	0	0	--	--	--	--	--	--	--	
WALTHAM-WESTON Waltham	504 0.6%	TOTAL	100.0	16.3	44	38	2.4	76.2	56.9	69.6	26.4	2.8
		White Non-Hisp.	74.2	16.3	28	33	1.6	80.7	53.5	77.5	19.8	1.6
		Black Non-Hisp.	6.3	31.2	7	3	6.2	50.0	62.5	46.9	37.5	12.5
		Hispanic	14.3	8.3	4	2	1.4	61.1	65.3	37.5	58.3	4.2
		Asian	4.4	--	4	0	13.6	81.8	81.8	77.3	13.6	4.5
		Other	0.4	--	1	0	--	--	--	--	--	--
Unknown	0.4	--	0	0	--	--	--	--	--	--	--	

<sup>6</sup> Formerly St. Joseph's Hospital; new name effective October 1, 1992.

**TABLE B-10 (continued)  
HOSPITAL PROFILES  
MASSACHUSETTS OCCURRENCE BIRTHS  
1992**

HOSPITAL NAME City/Town	Occurrence Births	Percent of Births by Mother's Race/Ethnicity	Method of Delivery			% Low Birth Weight	% Adequate Prenatal Care	% Mothers Breast Feeding	Delivery Method of Payment		
			Caesarean		% Private				% Public	% Free or Self Paid	
			% Total	# Primary							# Repeat
WINCHESTER Winchester	2,072 2.3%	TOTAL White Non-Hisp. Black Non-Hisp. Hispanic Asian Other Unknown	26.7 27.0 53.3 14.3 27.1 -- --	331 311 6 5 7 0 2	223 213 2 2 6 0 0	3.2 3.3 6.7 4.1 -- -- --	67.6 68.5 60.0 34.7 66.7 50.0 83.3	52.2 51.9 46.7 53.1 79.2 50.0 --	85.1 86.1 93.3 51.0 85.4 40.0 91.7	9.7 8.9 6.7 40.8 8.3 40.0 --	2.9 2.7 -- 6.1 6.2 20.0 8.3
ALL OTHER HOSPITALS, AT HOME, EN ROUTE, OTHER, UNKNOWN Statewide	344 0.4%	TOTAL White Non-Hisp. Black Non-Hisp. Hispanic Asian Other Unknown	0.6 -- -- -- -- -- --	2 2 0 0 0 0 0	0 0 0 0 0 0 0	11.9 8.4 25.0 30.0 9.1 -- --	49.7 58.8 35.7 35.0 36.4 -- 15.8	62.8 75.7 39.3 55.0 27.3 -- 31.6	32.0 36.7 30.4 20.0 22.7 -- 5.3	28.5 14.2 60.7 75.0 72.7 -- --	31.7 45.6 3.6 -- 4.5 -- 15.8
TOTAL	88,726 100.0%	TOTAL White Non-Hisp. Black Non-Hisp. Hispanic Asian Other Unknown	22.2 22.8 21.2 20.2 16.8 21.9 16.6	12,147 9,697 921 970 394 143 22	7,538 6,065 491 752 159 67 4	5.8 5.0 12.0 7.2 6.5 8.4 6.9	82.8 86.4 66.4 71.6 73.0 68.4 64.4	60.0 60.6 54.9 61.7 53.8 61.6 41.9	70.3 79.0 43.4 27.6 59.3 43.6 56.9	26.7 18.3 52.7 68.1 36.8 51.0 22.5	2.1 1.7 3.0 3.7 2.8 4.1 6.9

# ***DEATHS***



## SECTION C

### DEATHS

Massachusetts resident deaths increased from 1991 (53,010 deaths) to 1992 (53,804 deaths). The death rate per 1,000 population also increased from 8.8 in 1991 to 8.9 in 1992. As with live births, Massachusetts resident deaths include all deaths to Massachusetts residents regardless of the state in which they occurred. Most data presented in this section are resident data. Occurrence data are used only for medical examiner data.

#### DEATHS BY RACE

From 1991 to 1992, the number of deaths by race remained relatively constant with white residents comprising 95.3% of total deaths in Massachusetts.

The collection procedures for race information on death certificates, and the subsequent completeness of the information, is substantially different from that collected on birth certificates. Race and ethnicity information with natality data is collected as part of the confidential, statistical portion of the birth record, which is not required for legal registration. This may result in problems with parental refusals to provide the information or other respondent problems. Race and Hispanic ethnicity information on death certificates, as with all the other information collected as part of the death certificate registration process, is part of the mandatory, legal record. In virtually all cases with information on the death record, missing or unknown information is the result of a case in which the decedent is badly decomposed or otherwise unidentifiable, rather than any traditional reasons for missing or unknown information on a data collection instrument. Prior to 1989, only a race question was included on death certificates. A separate item on Hispanic origin was added to the death record beginning January 1, 1989. This item asks whether the decedent was of Hispanic origin. If answered affirmatively, then specific Hispanic origin must be indicated (e.g., Puerto Rican, Dominican, Cuban, etc.).

#### DEATHS BY AGE

Persons 75 years of age or older accounted for 55.7% of deaths. The percent of deaths to residents in this age group vary widely by race and sex.

SEX	RACE	% OF DEATHS UNDER AGE 75	% OF DEATHS 75 YEARS AND OLDER
MALE	WHITE	53.8	46.2
	BLACK	79.7	20.3
	TOTAL	54.9	45.1
FEMALE	WHITE	32.7	67.3
	BLACK	62.7	37.3
	TOTAL	33.7	66.3
TOTAL	WHITE	42.8	57.2
	BLACK	71.9	28.1
	TOTAL	43.9	56.1

## DEATHS BY PLACE OF OCCURRENCE

Between 1991 and 1992, there was little variation in the sites where deaths occurred. The data are presented below:

SITE	% OF DEATHS	% OF DEATHS
	1992	1991
HOSPITAL	57.2	58.8
AT HOME	19.6	18.5
NURSING OR REST HOME	19.2	18.4
EN ROUTE TO HOSPITAL OR DEAD ON ARRIVAL	2.9	3.3
UNKNOWN <sup>1</sup>	1.1	1.0
TOTAL	100.0	100.0

## DEATHS BY CAUSE

Cause of death statistics in this report are based on the Ninth Revision of the International Classification of Diseases (ICD-9). The methodology of coding cause of death from death certificates is consistent nationally, using the Automated Classification of Medical Entities (ACME), developed by the National Center for Health Statistics (NCHS). The ACME system requires every disease or condition mentioned on the record to be coded. The underlying cause is then selected by a computer program which incorporates the ICD-9 rules and conventions. Cause of death information in this report is based on underlying cause, except where otherwise noted.

In this section, three tables (C-5, C-6, and C-7) present data based on multiple conditions rather than underlying cause data. These tables, extending the utility of mortality data, are presented to illustrate the use of multiple cause data. This is particularly true when utilizing mortality data as a method of surveillance. For example, in 1992 there were 17,049 deaths resulting from heart disease as an underlying cause of death. However, an additional 11,751 deaths occurred in which heart disease was not the underlying cause but included heart disease as a mentioned condition, thus increasing the utilization of the mortality file as a surveillance data base for heart disease.

Table C-7 demonstrates the ability of multiple cause data to enhance the function of mortality data as a morbidity tool in cases of diseases that are not traditional underlying causes of death. For example, 1,195 deaths had diabetes listed as an underlying cause, but an additional 3,209 certificates had diabetes listed as a mentioned condition, thus increasing the ability to determine the prevalence of diabetes in the population.

<sup>1</sup> Unknown includes prison or other institutions and all other places.



The leading causes of death differ by race. In 1992, heart disease, cancer, diseases of the respiratory system, stroke, and pneumonia and influenza rank as the five leading causes of death among white Massachusetts residents. However, the five leading causes of death among black Massachusetts residents in 1992 were: cancer, heart disease, AIDS, diseases of the respiratory system, and suicide and homicide.

RANK	WHITE			BLACK		
	CAUSE	#	%	CAUSE	#	%
1	HEART DISEASE	16,537	32.3	CANCER	485	24.2
2	CANCER	13,580	26.5	HEART DISEASE	443	22.1
3	DISEASES OF THE RESPIRATORY SYSTEM	5,147	10.0	AIDS	141	7.0
4	STROKE	3,212	6.3	DISEASES OF THE RESPIRATORY SYSTEM	118	5.9
5	PNEUMONIA & INFLUENZA	2,324	4.5	SUICIDE & HOMICIDE	99	4.9
6	COPD <sup>2</sup>	2,103	4.1	STROKE	96	4.8
7	DIABETES	1,119	2.2	PNEUMONIA & INFLUENZA	57	2.8
8	CIRRHOSIS	658	1.3	DIABETES	56	2.8
9	SUICIDE & HOMICIDE	640	1.2	COPD	38	1.9
10	AIDS	558	1.1	MOTOR VEHICLE DEATHS	20	1.0
	ALL OTHER CAUSES <sup>3</sup>	5,381	10.5	ALL OTHER CAUSES	454	22.6
	TOTAL	51,259	100.0	TOTAL	2,007	100.0

#### ACQUIRED IMMUNE DEFICIENCY SYNDROME (AIDS)

The Ninth Revision of the International Classification of Diseases was developed before the identification of AIDS. Classification of this disease and related diseases has evolved since 1981. The deaths presented in Table C-10A and Table C-10B were coded by using the most current schedule, which began with 1987 data. Comparison data prior to 1987 are not available.

<sup>2</sup> Chronic Obstructive Pulmonary Disease.

<sup>3</sup> All Other Causes includes intentional and unintentional injuries and all other causes not specifically mentioned above.

## **DEATHS CERTIFIED BY MEDICAL EXAMINERS**

The total number of deaths certified by medical examiners decreased from 5,541 in 1991 to 4,589 in 1992. Of the deaths certified by medical examiners, 54.9% were reported as a result of natural causes. The percentage of deaths due to natural causes (i.e., non-injury related causes) certified by medical examiners varies widely by county, from a high of 66.7% in Nantucket County to a low of 36.9% in Hampshire County. Hampden County had the greatest percentage of deaths (22.4%) that were referred to medical examiners, but with the certification retained by the attending physician, while the highest number of such deaths was in Middlesex County with 2,259 deaths.

## **DEFINITIONS IMPORTANT FOR THIS SECTION INCLUDE:**

### **AGE-ADJUSTED RATE**

A procedure for adjusting rates, designed to minimize the effects of differences in age distribution when comparing rates for different populations. This procedure is accomplished by the computational process known as age standardization, whereby mortality statistics are adjusted to a reference population. For this publication, the reference population is the 1940 U.S. population, the same as used by the National Center for Health Statistics. The result of the process is a summary index that can be used to compare rates of different populations throughout the nation and over time.

### **CAUSE OF DEATH**

The disease or injury that initiated the series of events leading to death, or the circumstances of the unintentional or intentional injury that resulted in the death.

### **DEATH CERTIFICATE**

A vital record signed by a licensed physician that includes cause of death, decedent's name, sex, birth date, place of residence, and place of occurrence.

### **INTERNATIONAL CLASSIFICATION OF DISEASES, NINTH REVISION**

The International Classification of Disease (ICD) classifies mortality information for statistical purposes. The ICD was first used in 1900 and has since been revised about every 10 years. The Ninth Revision, published in 1977, is used to code mortality data beginning with 1979.

### **MISER**

The Massachusetts Institute for Social and Economic Research. This research institute, located at the University of Massachusetts in Amherst, produces the official population estimates and projections for the Department of Public Health.

## OCCURRENCE DEATH

Occurrence deaths include all deaths that occur within the state, including deaths of non-residents. An interstate exchange agreement among the 50 states and Canada provides for exchanges of copies of birth and death records. These records are used for statistical purposes only, and allow each state or province to track the births and deaths of residents.

## RACE

For death records, race is provided by the death record informant (for example, spouse or next of kin).

## RESIDENT DEATH

The death of a person whose usual place of residence or permanent address (as reported by the informant) is in one of the 351 cities or towns of Massachusetts, regardless of where the death took place. Unless otherwise noted, all data in this publication are resident data. An interstate exchange agreement among the 50 states and Canada provides for exchange of copies of birth and death records. These records are used for statistical purposes only, and allow each state or province to track the births and deaths of residents.

## UNDERLYING CAUSE OF DEATH

The underlying cause of death is: 1.) the disease or injury that initiated the series of events leading to death, or 2.) the circumstances of the unintentional or intentional injury that resulted in the death. See Death Certificate.

## **RATES IMPORTANT FOR THIS SECTION INCLUDE:**

<b>AGE-SPECIFIC DEATH RATE</b>	$\frac{\text{Number of Resident Deaths in Specific Age Group}}{\text{Total Population of Specific Age Group}} \times 100,000$
------------------------------------	---

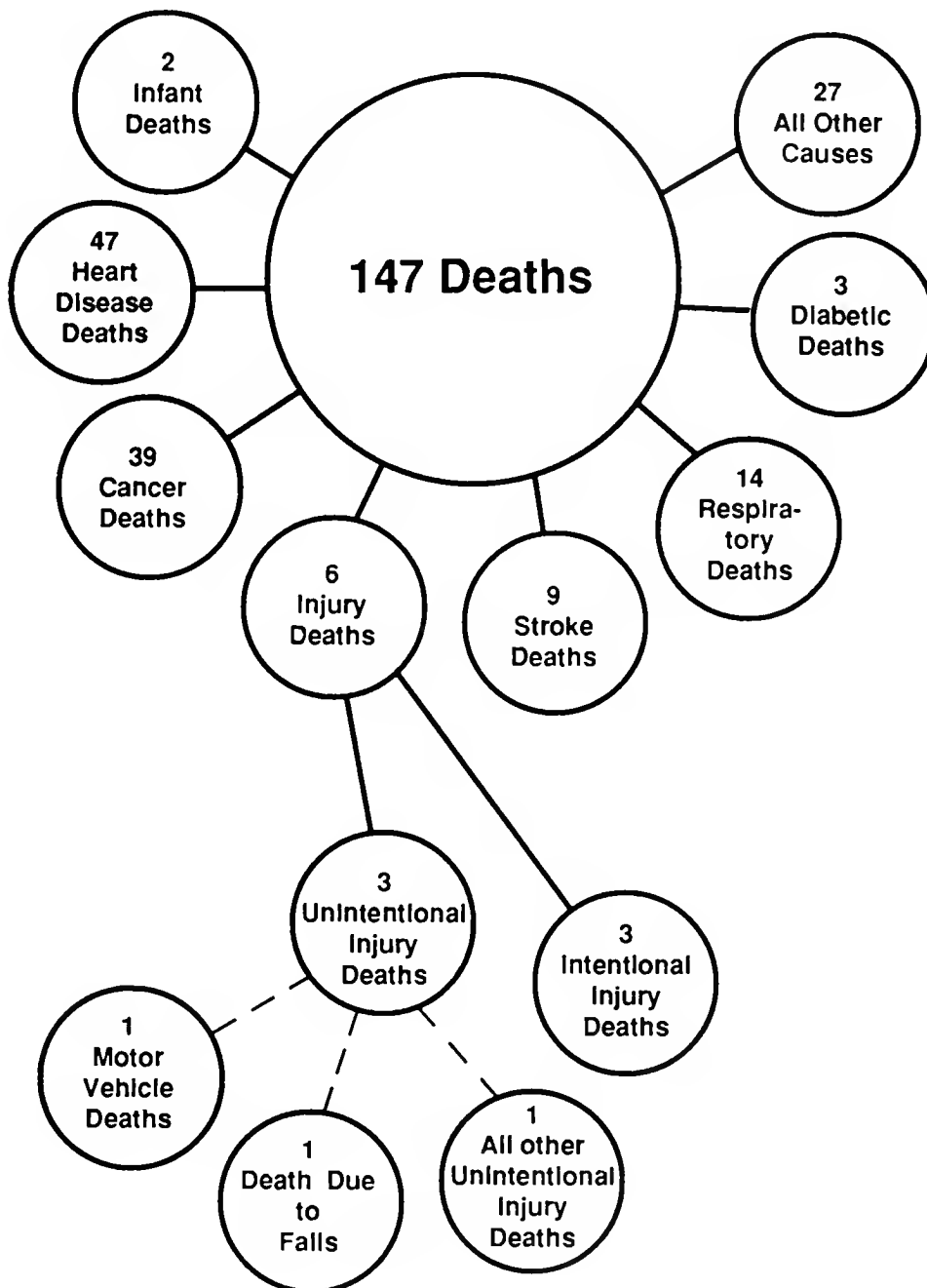
<b>CAUSE-SPECIFIC DEATH RATE</b>	$\frac{\text{Number of Resident Deaths for a Specific Cause}}{\text{Total Population}} \times 100,000$
--------------------------------------	--

<b>CRUDE DEATH RATE</b>	$\frac{\text{Number of Resident Deaths In A Year}}{\text{Total Population}} \times 1,000$
-------------------------	---



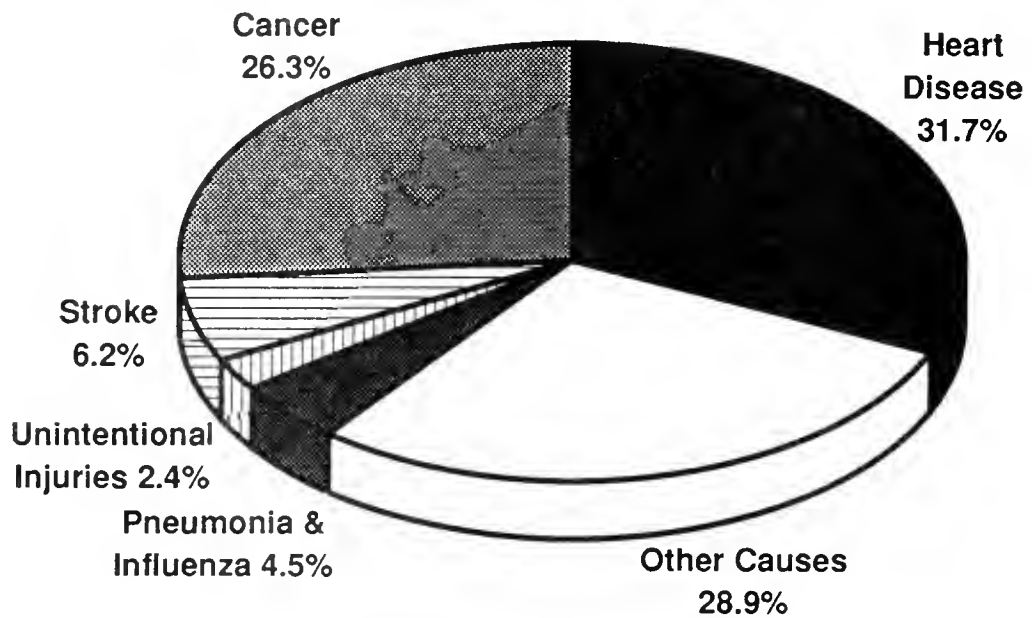
FIGURE C - 1

Every day in 1992, residents of Massachusetts experienced an average of:



**Figure C-2**

**Five Leading Causes of Death  
Massachusetts: 1992**



**Number of Deaths: 53,804**

**TABLE C-1**  
**TRENDS IN MORTALITY CHARACTERISTICS**  
**MASSACHUSETTS RESIDENT DEATHS**  
**1980-1992**

Year	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Resident Deaths	#	54,934	52,867	54,150	55,189	55,597	55,860	55,562	56,407	53,748	53,008	53,010	53,804
Age-adjusted Death Rate <sup>1,2</sup>		550.7	529.7	527.8	526.8	523.7	516.2	509.6	513.7	489.9	471.7	461.5	463.2
Race of Decedent													
White	#	53,251	51,190	52,412	53,309	53,580	53,903	53,522	54,224	51,608	50,779	50,815	51,525
	%	96.9	96.9	96.8	96.6	96.4	96.5	96.3	96.1	96.0	95.8	95.8	95.8
Black	#	1,508	1,447	1,497	1,644	1,779	1,731	1,786	1,909	1,850	1,879	1,887	1,957
	%	2.8	2.8	2.8	3.0	3.2	3.1	3.2	3.4	3.4	3.5	3.6	3.6
Other	#	141	153	199	188	214	211	252	254	290	341	303	319
	%	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.4	0.6	0.6	0.5	0.6
Unknown	#	34	23	42	48	24	15	2	20	0	9	5	3
	%	--	--	--	--	--	--	--	--	--	--	--	--
Age of Decedent <sup>3</sup>													
<1 year	#	748	710	682	699	746	695	608	693	697	649	576	569
1-4 years	#	127	120	121	97	112	131	96	103	106	93	81	108
5-19 years	#	547	497	478	472	466	440	404	407	370	375	334	286
20-44 years	#	2,680	2,594	2,546	2,628	2,734	2,900	3,041	3,243	3,183	3,005	3,242	3,363
45-64 years	#	10,504	10,303	10,087	9,947	9,691	9,150	9,052	9,051	8,532	8,138	7,877	7,973
65-74 years	#	12,411	12,193	12,393	12,750	12,790	12,638	12,530	12,593	12,153	11,707	11,415	11,515
75-84 years	#	15,506	14,775	15,132	15,435	15,515	15,984	16,091	16,003	15,439	15,553	15,506	15,912
85+ years	#	12,409	11,874	12,704	13,158	13,538	13,918	13,737	14,309	13,268	13,482	13,979	14,076

<sup>1</sup> The data are age-adjusted by the direct method using 1940 U.S. Census data.

<sup>2</sup> Rates are expressed as deaths per 100,000 residents.

<sup>3</sup> Column sums may not equal totals, because the age of some decedents was unknown.

**TABLE C-2**  
**FIVE LEADING CAUSES OF DEATH**  
**AGE-ADJUSTED RATES<sup>1</sup>**  
**MASSACHUSETTS AND UNITED STATES**  
**1980-1992**

YEAR		UNDERLYING CAUSE OF DEATH											
		Heart Disease (390-398, 402, 404-429)		Cancer (140-208)		Stroke (430-438)		Pneumonia/ Influenza (480-487)		Unintentional Injuries (E800-E949)		All Causes	
		MA	U.S.	MA	U.S.	MA	U.S.	MA	U.S.	MA	U.S.	MA	U.S.
1980	Rate %	197.7 39.9	202.0 38.2	136.6 22.2	132.8 20.9	34.2 7.9	40.8 8.6	16.7 4.0	12.9 2.7	30.4 3.9	42.3 5.3	550.7 585.8	
1981	Rate %	197.1 36.5	195.0 38.1	136.6 21.3	131.6 21.3	34.0 7.0	38.1 8.3	16.4 3.4	12.3 2.7	29.1 3.5	39.8 5.1	543.2 568.2	
1982	Rate %	196.5 36.5	190.5 38.3	137.6 21.7	132.6 22.0	31.7 6.6	35.8 8.0	13.8 2.9	10.9 2.5	25.2 3.1	36.6 4.8	536.2 553.2	
1983	Rate %	193.1 36.4	188.8 38.2	140.0 22.2	132.5 21.9	30.2 6.4	34.4 7.7	14.7 3.3	11.8 2.8	26.4 3.2	34.9 4.6	539.4 550.5	
1984	Rate %	192.9 36.6	183.6 37.4	140.7 22.3	132.6 22.1	30.6 6.6	33.4 7.6	14.8 3.3	12.2 2.9	25.7 3.2	35.0 4.6	542.7 545.9	
1985	Rate %	178.7 37.9	180.5 37.2	140.2 23.5	133.6 22.0	27.3 6.8	32.3 7.3	14.7 4.0	13.4 3.2	25.2 3.4	34.7 4.5	523.7 546.1	
1986	Rate %	172.3 37.2	175.0 36.4	137.7 23.4	133.2 22.3	27.0 6.7	31.0 7.1	16.0 4.5	13.5 3.3	24.8 3.3	35.2 4.5	516.2 541.7	
1987	Rate %	165.8 36.2	169.9 35.9	139.0 23.9	133.1 22.4	26.5 6.8	30.1 7.0	15.7 4.4	13.2 3.3	23.2 3.1	34.6 4.5	509.6 535.5	
1988	Rate %	164.1 35.8	166.7 35.3	138.6 23.3	133.3 22.5	26.0 6.6	29.8 6.6	16.0 4.5	14.2 3.6	23.1 3.1	35.1 4.5	513.7 536.3	
1989	Rate %	142.4 33.1	155.9 34.1	140.2 25.3	133.7 23.1	23.8 6.4	28.5 6.8	13.5 4.1	13.3 3.5	21.1 3.0	33.5 4.4	489.9 524.1	
1990	Rate %	138.2 33.4	150.3 33.5	136.7 25.3	133.0 23.4	22.5 6.2	27.6 6.7	14.2 4.3	13.5 3.6	19.4 2.9	32.7 4.3	471.7 515.1	
1991	Rate %	130.7 32.2	146.1 33.2	137.1 26.0	132.6 23.8	21.1 6.2	26.5 6.6	14.1 4.5	12.6 3.5	18.0 2.7	31.7 4.2	461.5 507.9	
1992	Rate <sup>2</sup> %	128.5 31.7	144.5 33.1	139.6 26.3	133.2 23.9	21.1 6.2	26.1 6.6	13.6 4.5	12.7 3.5	15.9 2.4	29.2 4.0	463.2 504.9	

<sup>1</sup> Age-adjusted rates per 100,000 residents in specified group.

<sup>2</sup> Source of 1992 U.S. data: "Annual Summary of Births, Marriages, Divorces, and Deaths: United States, 1992", Monthly Vital Statistics Report, Provisional data from the Centers for Disease Control/National Center for Health Statistics, U.S. Department of Health and Human Services, Vol. 41, No. 13 (September 28, 1993).



**TABLE C-3**  
**LEADING CAUSES OF DEATH BY AGE**  
**MASSACHUSETTS RESIDENTS**  
**1992**

Age	Cause of Death	ICD-9 Code	Deaths
< 1 year	Certain conditions originating in the perinatal period	760-779	324
	Congenital anomalies	740-759	105
	Sudden infant death syndrome (SIDS)	798.0	62
	Total Deaths		569
1-4 years	Unintentional injuries, excluding motor vehicle injuries	E800-E807,E826-E949	24
	Cancer	140-208	14
	Congenital anomalies	740-759	14
	Diseases of the respiratory system	460-519	7
	Motor vehicle-related injuries	E810-E825	7
	Total Deaths		108
5-14 years	Cancer	140-208	27
	Unintentional injuries, excluding motor vehicle injuries	E800-E807,E826-E949	18
	Motor vehicle-related injuries	E810-E825	16
	Homicide and legal intervention	E960-E979	10
	Total Deaths		117
15-24 years	Motor vehicle-related injuries	E810-E825	139
	Homicide and legal intervention	E960-E979	85
	Suicide	E950-E959	72
	Unintentional injuries, excluding motor vehicle injuries	E800-E807,E826-E949	35
	Total Deaths		470
25-44 years	AIDS and HIV-related diseases	042-044	547
	Cancer	140-208	542
	Heart disease	390-398,402,404-429	330
	Suicide	E950-E959	259
	Total Deaths		3,062
45-64 years	Ischemic heart disease	410-414	1,381
	Cancer of the lung and respiratory organs	160-165	1,158
	Other heart disease	415-423,425-429	699
	Cancer of the stomach and digestive organs	150-159	662
	Total Deaths		7,973
65-74 years	Ischemic heart disease	410-414	2,434
	Cancer of the lung and respiratory organs	160-165	1,314
	Cancer of the stomach and digestive organs	150-159	988
	Other heart disease	415-423,425-429	939
	Total Deaths		11,515
75-84 years	Ischemic heart disease	410-414	3,812
	Other heart disease	415-423,425-429	1,394
	Cancer of the stomach and digestive organs	150-159	1,172
	Stroke	430-438	1,117
	Cancer of the lung and respiratory organs	160-165	982
	Total Deaths		15,912
85 + years	Ischemic heart disease	410-414	3,518
	Other heart disease	415-423,425-429	1,671
	Stroke	430-438	1,410
	Pneumonia and influenza	480-487	1,225
	Cancer of the stomach and digestive organs	150-159	618
	Total Deaths		14,076

**TABLE C-4**  
**RESIDENT DEATHS BY AGE, SEX AND RACE**  
**MASSACHUSETTS RESIDENTS**  
**1992**

AGE	TOTAL			WHITE			BLACK			OTHER & UNKNOWN		
	TOTAL <sup>1</sup>	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
TOTAL	53,804	26,033	27,769	51,523	24,789	26,734	1,957	1,059	898	322	185	137
0-4	677	377	300	527	301	226	128	64	64	22	12	10
5-9	56	30	26	48	26	22	5	2	3	3	2	1
10-14	61	44	17	46	32	14	14	12	2	1	0	1
15-19	169	120	49	139	96	43	27	22	5	3	2	1
20-24	301	220	81	257	186	71	34	26	8	10	8	2
25-29	439	328	111	385	291	94	48	34	14	6	3	3
30-34	758	533	225	660	471	189	91	56	35	7	6	1
35-39	873	617	256	763	553	210	101	60	41	9	4	5
40-44	992	661	331	873	586	287	105	69	36	14	6	8
45-49	1,243	801	442	1,135	730	405	92	60	32	16	11	5
50-54	1,414	839	575	1,302	774	528	98	56	42	14	9	5
55-59	2,019	1,272	747	1,871	1,178	693	122	78	44	26	16	10
60-64	3,297	2,018	1,279	3,146	1,932	1,214	131	74	57	20	12	8
65-69	4,891	2,888	2,003	4,645	2,744	1,901	204	122	82	42	22	20
70-74	6,624	3,619	3,005	6,391	3,494	2,897	200	105	95	33	20	13
75-79	7,835	3,986	3,849	7,628	3,885	3,743	176	88	88	31	13	18
80-84	8,077	3,446	4,631	7,888	3,373	4,515	158	56	102	31	17	14
85-89	7,005	2,487	4,518	6,878	2,424	4,454	107	49	58	20	14	6
90-94	4,606	1,289	3,317	4,528	1,267	3,261	66	15	51	12	7	5
95-99	2,004	399	1,605	1,966	388	1,578	37	10	27	1	1	0
≥ 100	461	59	402	447	58	389	13	1	12	1	0	1

<sup>1</sup> The total includes 2 deaths of unknown age--one white male and one white female

**TABLE C-5  
DEATHS BY UNDERLYING CAUSE AND MENTIONED CONDITIONS  
MASSACHUSETTS RESIDENTS  
1992**

Underlying Cause	Total Deaths <sup>1</sup>	Mentioned Conditions <sup>2</sup>													Ratio of Mentions to Deaths	
		1	2	3	4	5	6	7	8	9	10	11	12	13		Tot 1-13
TOTAL	53,804	18,936	4,427	40,210	6,183	1,199	5,729	4,892	3,188	1,044	567	1,962	774	46,770	135,881	2.53
1. Cancer (140-208)	14,174	17,038	533	3,032	350	40	826	753	481	94	0	174	1	6,839	30,161	2.13
2. Diabetes Mellitus (250)	1,195	50	1,218	1,234	202	56	66	40	40	21	0	16	0	976	3,919	3.28
3. Heart Disease (390-398, 402, 404-429)	17,049	904	1,582	28,459	1,279	409	708	1,214	644	79	6	358	0	8,634	44,276	2.60
4. Stroke (430-438)	3,328	137	282	1,015	3,533	196	319	87	250	15	0	114	0	2,255	8,203	2.46
5. Atherosclerosis (440)	342	17	25	145	0	342	21	14	7	0	0	9	0	169	749	2.19
6. Pneumonia & Influenza (480-487)	2,395	186	158	868	206	21	2,393	160	66	18	0	36	0	1,954	6,066	2.53
7. COPD <sup>3</sup> (490-496)	2,151	143	118	1,047	66	14	454	2,160	140	8	0	52	0	1,861	6,063	2.82
8. Other Respiratory Disease (460-466, 470-478, 500-508, 510-519)	747	57	23	323	22	8	28	49	780	6	0	48	0	638	1,982	2.65
9. Chronic Liver Disease & Cirrhosis (571)	680	26	31	135	15	0	22	21	34	687	0	16	0	953	1,940	2.85
10. Motor Vehicle Injuries (E810-E825)	558	0	3	20	1	0	2	0	2	1	558	1	0	734	1,322	2.37
11. Other Injuries (E800-E809, E826-E949)	719	18	14	237	25	0	29	20	53	8	1	740	0	1,392	2,537	3.53
12. Suicide & Homicide (E950-E969)	767	4	0	9	0	0	2	0	3	1	0	2	772	1,007	1,800	2.35
13. All Other Causes	9,699	356	440	3,686	484	113	859	374	688	106	2	396	1	19,358	26,863	2.77

<sup>1</sup> The numbers in the Mentioned Conditions columns refer to the causes with the same numbers in the Underlying Cause column, i.e., column #1 under Mentioned Conditions is the number of mentions of cancer

<sup>2</sup> Total Deaths by Underlying Cause

<sup>3</sup> Chronic Obstructive Pulmonary Disease

**TABLE C-6**  
**CANCER DEATHS BY UNDERLYING CAUSE AND MENTIONED CONDITIONS**  
**MASSACHUSETTS RESIDENTS**  
**1992**

Mentioned Conditions	Underlying Cause of Cancer						
	Total	Digestive Organs & Peritoneum (150-159)	Respiratory & Intrathoracic Organs (160-165)	Bone, Skin, Connective Tissue & Breast (170-175)	Genitourinary Organs (179-189)	Lymphatic & Haematopoietic Tissue (200-208)	All Other Malignant Neoplasms
Total Mentioned Conditions	30,161	7,300	8,020	3,273	4,760	3,178	3,630
Mean Number of Mentioned Conditions Per Record	2.13	2.07	2.11	2.00	2.19	2.35	2.15
Deaths	14,174	3,523	3,796	1,639	2,169	1,355	1,692
1. Any Cancer (140-208)	17,038	4,272	4,514	2,073	2,653	1,436	2,090
2. Diabetes Mellitus (250)	533	156	128	53	87	47	62
3. Heart Disease (390-398, 402, 404-429)	3,032	742	804	279	516	344	347
4. Stroke (430-438)	350	70	86	39	55	57	43
5. Atherosclerosis (440)	40	4	12	6	7	5	6
6. Pneumonia/Influenza (480-487)	826	116	304	65	105	144	92
7. COPD <sup>1</sup> (490-496)	753	128	415	25	70	36	79
8. Other Respiratory Disease (460-466, 470-478, 500-508, 510-519)	481	89	155	39	62	63	73
9. Chronic Liver Disease & Cirrhosis (571)	94	50	14	4	7	8	11
10. Unintentional Injuries (E800-E949)	175	47	28	13	31	38	18
11. All Other Causes	6,839	1,626	1,560	677	1,167	1,000	809

<sup>1</sup> Chronic Obstructive Pulmonary Disease

**TABLE C-7**  
**ATHEROSCLEROSIS, HYPERTENSIVE DISEASE AND DIABETES**  
**UNDERLYING CAUSE AND MENTIONED CONDITIONS BY AGE GROUP AND SEX**  
**MASSACHUSETTS RESIDENT DEATHS**  
**1992**

Age	Sex	# of Deaths	Atherosclerosis (440)			Hypertensive Disease (401-405)			Diabetes Mellitus (250)		
			Under-lying Cause	Mentioned Conditions	Total % of Deaths	Under-lying Cause	Mentioned Conditions	Total % of Deaths	Under-lying Cause	Mentioned Conditions	Total % of Deaths
	TOTAL <sup>1</sup>	53,804	342	857	<u>1,199</u> 2.2	593	3,067	<u>3,660</u> 6.8	1,195	3,209	<u>4,404</u> 8.2
	MALE	26,033	125	348	<u>473</u> 1.8	228	1,163	<u>1,391</u> 5.3	536	1,463	<u>1,999</u> 7.7
	FEMALE	27,769	217	509	<u>726</u> 2.6	365	1,904	<u>2,269</u> 8.2	659	1,746	<u>2,405</u> 8.7
0-39	Total	3,334	0	0	<u>0</u> **	3	10	<u>13</u> 0.4	24	27	<u>51</u> 1.5
	Male	2,269	0	0	<u>0</u> **	2	7	<u>9</u> 0.4	13	18	<u>31</u> 1.4
	Female	1,065	0	0	<u>0</u> **	1	3	<u>4</u> 0.4	11	9	<u>20</u> 1.9
40-49	Total	2,235	2	7	<u>9</u> 0.4	14	55	<u>69</u> 3.1	45	70	<u>115</u> 5.1
	Male	1,462	1	3	<u>4</u> 0.3	10	36	<u>46</u> 3.1	29	44	<u>73</u> 5.0
	Female	773	1	4	<u>5</u> 0.6	4	19	<u>23</u> 3.0	16	26	<u>42</u> 5.4
50-59	Total	3,433	5	25	<u>30</u> 0.9	30	148	<u>178</u> 5.2	76	154	<u>230</u> 6.7
	Male	2,111	4	13	<u>17</u> 0.8	20	93	<u>113</u> 5.4	47	90	<u>137</u> 6.5
	Female	1,322	1	12	<u>13</u> 1.0	10	55	<u>65</u> 4.9	29	64	<u>93</u> 7.0
60-69	Total	8,188	21	77	<u>98</u> 1.2	74	490	<u>564</u> 6.9	241	595	<u>836</u> 10.2
	Male	4,906	13	49	<u>62</u> 1.3	52	270	<u>322</u> 6.6	126	320	<u>446</u> 9.1
	Female	3,282	8	28	<u>36</u> 1.1	22	220	<u>242</u> 7.4	115	275	<u>390</u> 11.9
70-79	Total	14,459	68	235	<u>303</u> 2.1	133	917	<u>1,050</u> 7.3	401	1,136	<u>1,537</u> 10.6
	Male	7,605	40	134	<u>174</u> 2.3	70	398	<u>468</u> 6.2	181	567	<u>748</u> 9.8
	Female	6,854	28	101	<u>129</u> 1.9	63	519	<u>582</u> 8.5	220	569	<u>789</u> 11.5
≥ 80	Total	22,153	246	513	<u>759</u> 3.4	339	1,447	<u>1,786</u> 8.1	408	1,227	<u>1,635</u> 7.4
	Male	7,680	67	149	<u>216</u> 2.8	74	359	<u>433</u> 5.6	140	424	<u>564</u> 7.3
	Female	14,473	179	364	<u>543</u> 3.8	265	1,088	<u>1,353</u> 9.3	268	803	<u>1,071</u> 7.4

<sup>1</sup> Total includes 2 deaths of unknown age

<sup>2</sup> \*\*Indicates percentage less than 0.1.

**TABLE C-8**  
**SUICIDES BY METHOD, SEX, AND AGE**  
**MASSACHUSETTS RESIDENT DEATHS**  
**1992**

UNDERLYING CAUSE	ICD-9 Code		TOTAL	Age								
				10-14	15-19	20-29	30-39	40-49	50-59	60-69	70-79	≥ 80
All Suicides	E950-E959	M	433	4	15	96	105	78	46	40	34	14
		F	108	2	5	15	30	24	8	13	4	7
		T	541 <sup>1</sup>	6	20	111	135	102	54	53	38	27
		%	100.0 <sup>2</sup>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Poisoning by solid or liquid substances	E950	M	44	1	0	9	8	10	8	4	2	2
		F	36	0	0	3	19	6	3	4	0	1
		T	80	1	0	12	27	16	11	8	2	3
		%	14.8	16.7	0.0	10.8	20.0	15.7	20.4	15.1	5.3	14.3
Poisoning by motor vehicle exhaust gas	E952	M	38	0	2	7	10	7	6	3	2	1
		F	14	0	0	2	2	4	2	2	1	1
		T	52	0	2	9	12	11	8	5	3	2
		%	9.6	0.0	10.0	8.1	8.9	10.8	14.8	9.4	7.9	9.5
Hanging, strangulation and suffocation	E953	M	134	3	6	39	36	17	10	14	6	2
		F	30	2	2	6	5	8	2	1	1	3
		T	164	5	8	45	41	25	12	15	7	5
		%	30.3	83.3	40.0	40.5	30.4	24.5	22.2	28.3	18.4	23.8
Submersion (drowning)	E954	M	16	0	1	1	8	4	0	1	0	1
		F	2	0	0	0	1	0	0	0	1	0
		T	18	0	1	1	9	4	0	1	1	1
		%	3.3	0.0	5.0	0.9	6.7	3.9	0.0	1.9	2.6	4.8
Firearms and explosives	E955	M	159	0	5	34	34	27	18	17	19	5
		F	16	0	3	4	1	3	0	3	1	1
		T	175	0	8	38	35	30	18	20	20	6
		%	32.4	0.0	40.0	34.2	25.9	29.4	33.3	37.7	52.6	28.8
Cutting and piercing instruments	E956	M	9	0	0	1	2	2	1	0	2	1
		F	1	0	0	0	1	0	0	0	0	0
		T	10	0	0	1	3	2	1	0	2	1
		%	1.8	0.0	0.0	0.9	2.2	2.0	1.9	0.0	5.3	4.8
Jumping from high places	E957	M	21	0	0	4	4	7	1	1	2	2
		F	6	0	0	0	1	1	1	2	0	1
		T	27	0	0	4	5	8	2	3	2	3
		%	5.0	0.0	0.0	3.6	3.7	7.8	3.7	5.7	5.3	14.3
Other and unspecified means	E958	M	12	0	1	1	3	4	2	0	1	0
		F	2	0	0	0	0	1	0	1	0	0
		T	14	0	1	1	3	5	2	1	1	0
		%	2.6	0.0	5.0	0.9	2.2	4.9	3.7	1.9	2.6	0.0
Late effects of self-inflicted injury	E959	M	0	0	0	0	0	0	0	0	0	0
		F	1	0	0	0	0	1	0	0	0	0
		T	1	0	0	0	0	1	0	0	0	0
		%	0.2	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0

<sup>1</sup> Total includes 1 male of unknown age.

<sup>2</sup> Percents may not sum to 100.0 due to rounding.

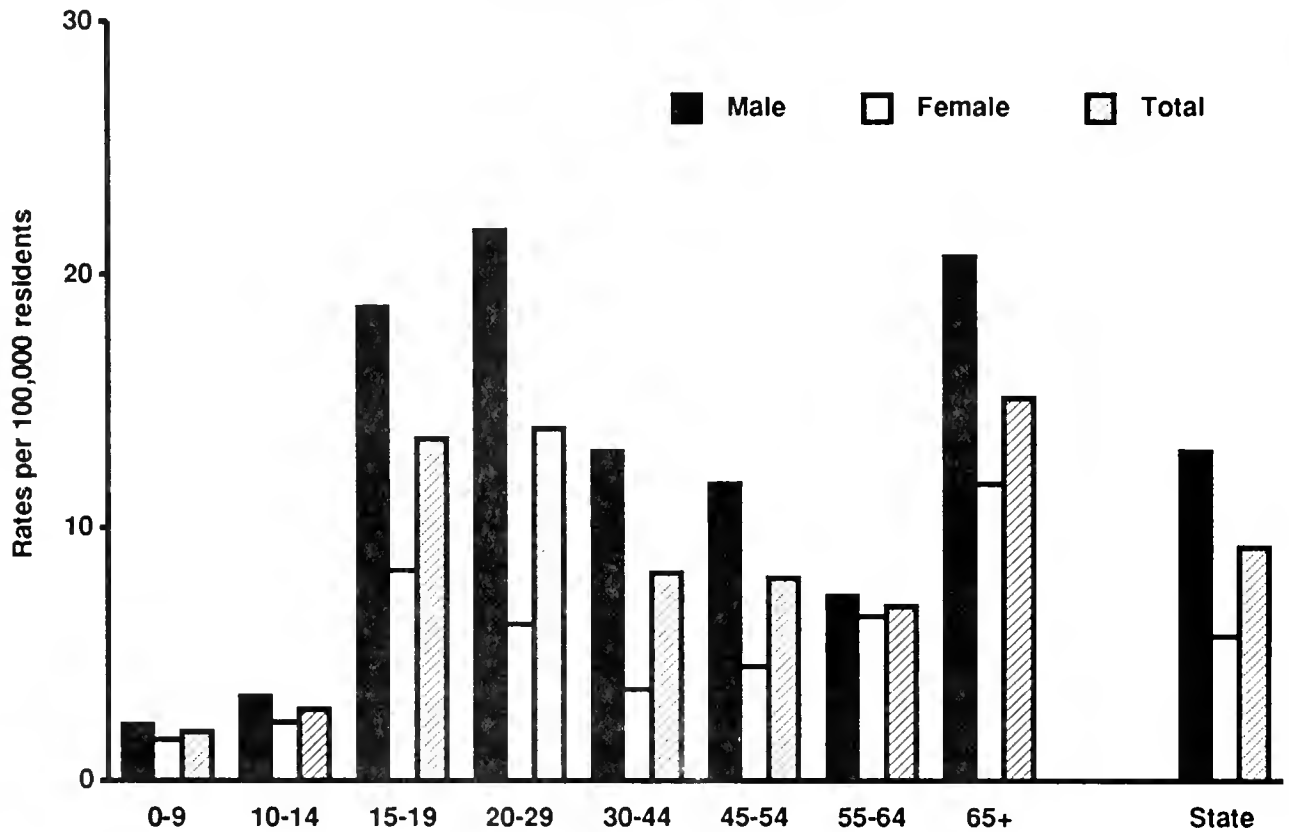
**TABLE C-9  
MOTOR VEHICLE DEATHS BY TYPE  
MASSACHUSETTS RESIDENTS  
1992**

UNDERLYING CAUSE	ICD-9 Code		TOTAL	Decedent						
				Driver	Passenger	Motor-cyclist	Passenger, Motorcycle	Pedestrian	Pedal Cyclist	Other & Unspec.
All Motor Vehicle Deaths	E810-E825	M F T %	379 179 558 100.0 <sup>1</sup>	173 80 253 100.0	66 48 114 100.0	27 1 28 100.0	1 2 3 100.0	76 37 113 100.0	6 3 9 100.0	30 8 38 100.0
Collision with train	E810	M F T %	0 3 3 0.5	0 1 1 0.4	0 2 2 1.8	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0
Collision with another motor vehicle	E812	M F T %	116 57 173 31.0	77 37 114 45.1	23 19 42 36.8	11 1 12 42.9	1 0 1 33.3	0 0 0 0.0	1 0 1 11.1	3 0 3 7.9
Collision with another vehicle	E813	M F T %	6 3 9 1.6	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0	5 3 8 88.9	1 0 1 2.6
Motor vehicle with pedestrian	E814	M F T %	75 37 112 20.1	1 0 1 0.4	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0	74 37 111 98.2	0 0 0 0.0	0 0 0 0.0
Other motor vehicle collision on the highway	E815	M F T %	129 58 187 33.5	77 36 113 44.7	37 19 56 49.1	10 0 10 35.7	0 2 2 66.7	1 0 1 0.9	0 0 0 0.0	4 1 5 13.2
Lost control without collision on the highway	E816	M F T %	26 9 35 6.3	15 4 19 7.5	3 5 8 7.0	4 0 4 14.3	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0	4 0 4 10.5
Other non-collision motor vehicle	E818	M F T %	2 3 5 0.9	0 1 1 0.4	0 0 0 0.0	1 0 1 3.6	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0	1 2 3 7.9
Motor vehicle of unspecified nature	E819	M F T %	14 9 23 4.1	2 1 3 1.2	2 3 5 4.4	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0	10 5 15 39.5
Other involving motor-driven snow vehicle	E820	M F T %	1 0 1 0.2	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0	1 0 1 2.6
Other off-road motor vehicle	E821	M F T %	3 0 3 0.5	0 0 0 0.0	0 0 0 0.0	1 0 1 3.6	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0	2 0 2 5.3
Other involving collision with moving object	E822	M F T %	2 0 2 0.4	1 0 1 0.4	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0	1 0 1 0.9	0 0 0 0.0	0 0 0 0.0
Other nontraffic of unspecified nature	E825	M F T %	5 0 5 0.9	0 0 0 0.0	1 0 1 0.9	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0	0 0 0 0.0	4 0 4 10.5

<sup>1</sup> Percents may not sum to 100.0 due to rounding.

Figure C-3

**Motor Vehicle Deaths  
Age-Specific Rates  
Massachusetts: 1992**



Male	2.2	3.3	18.7	21.7	13.0	11.7	7.3	20.7
Female	1.6	2.3	8.3	6.2	3.6	4.5	6.5	11.7
Total	1.9	2.8	13.5	13.9	8.2	8.0	6.9	15.1

13.0
5.7
9.2



**TABLE C-10A**  
**AIDS<sup>1</sup> AND HIV-RELATED<sup>2</sup> DEATHS BY CAUSE AND PLACE OF OCCURRENCE**  
**MASSACHUSETTS RESIDENT DEATHS**  
**1987-1992**

		AIDS and AIDS-related Deaths	Cause of Death (ICD-9 Codes)			Place of Occurrence			
		TOTAL	AIDS (042)	AIDS-like syndrome (043)	Other HIV infection (044)	At Home	Hospital	Out of State	Other <sup>3</sup>
1987	# %	241 100.0	233 96.7	3 1.2	5 2.1	26 10.8	207 85.9	5 2.1	3 1.2
1988	# %	315 100.0	303 96.2	3 0.9	9 2.9	67 21.3	234 74.3	7 2.2	7 2.2
1989	# %	404 100.0	382 94.6	1 0.2	21 5.2	79 19.6	313 77.5	7 1.7	5 1.2
1990	# %	447 100.0	427 95.5	4 0.9	16 3.6	90 20.1	284 63.5	9 2.1	64 14.3
1991	# %	632 100.0	595 94.1	3 0.5	34 5.4	159 25.2	338 53.5	4 0.6	131 20.7
1992	# %	701 100.0	670 95.6	6 0.8	25 3.6	171 24.4	394 56.2	14 2.0	122 17.4

**TABLE C-10B**  
**AIDS AND HIV-RELATED DEATHS BY SEX, RACE AND AGE**  
**MASSACHUSETTS RESIDENT DEATHS**  
**1987-1992**

		AIDS and AIDS-related Deaths	Sex		Race			Age (in years)				
		TOTAL						Male	Female	White	Black	Other
1987	# %	241 100.0	209 86.7	32 13.3	190 78.8	50 20.8	1 0.4	5 2.1	8 3.3	105 43.6	78 32.3	45 18.7
1988	# %	315 100.0	281 89.2	34 10.8	251 79.7	64 20.3	0 0.0	5 1.6	12 3.8	111 35.2	127 40.3	60 19.1
1989	# %	404 100.0	359 88.9	45 11.1	327 81.0	76 18.8	1 0.2	3 0.8	16 4.0	146 36.1	167 41.3	72 17.8
1990	# %	447 100.0	390 87.2	57 12.8	352 78.8	94 21.0	1 0.2	3 0.7	4 0.9	147 32.8	197 44.1	96 21.5
1991	# %	632 100.0	535 84.7	97 15.3	513 81.2	118 18.7	1 0.1	9 1.4	19 3.0	214 33.8	298 47.2	92 14.6
1992	# %	701 100.0 <sup>4</sup>	605 86.3	96 13.7	519 74.0	147 21.0	35 5.0	6 0.9	5 0.7	243 34.7	304 43.4	143 20.4

<sup>1</sup> Acquired Immune Deficiency Syndrome

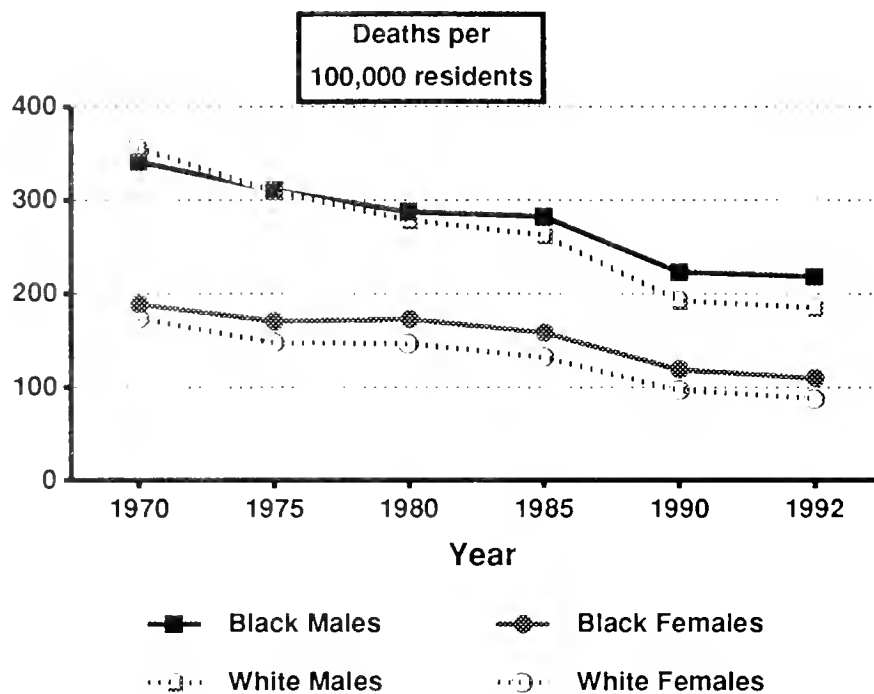
<sup>2</sup> Human Immunodeficiency Virus

<sup>3</sup> Includes hospice.

<sup>4</sup> Percents may not sum to 100.0 due to rounding

Figure C-4

**Heart Disease Deaths by Race and Sex**  
**Age-Adjusted Rates<sup>1</sup>**  
**Massachusetts: 1970-1992**



1. All rates are age-adjusted by the direct method using the 1940 U S Population

**TABLE C-11**  
**CANCER DEATHS BY LEADING CAUSES**  
**AGE-ADJUSTED RATES<sup>1</sup>**  
**MASSACHUSETTS RESIDENT DEATHS**  
**1992**

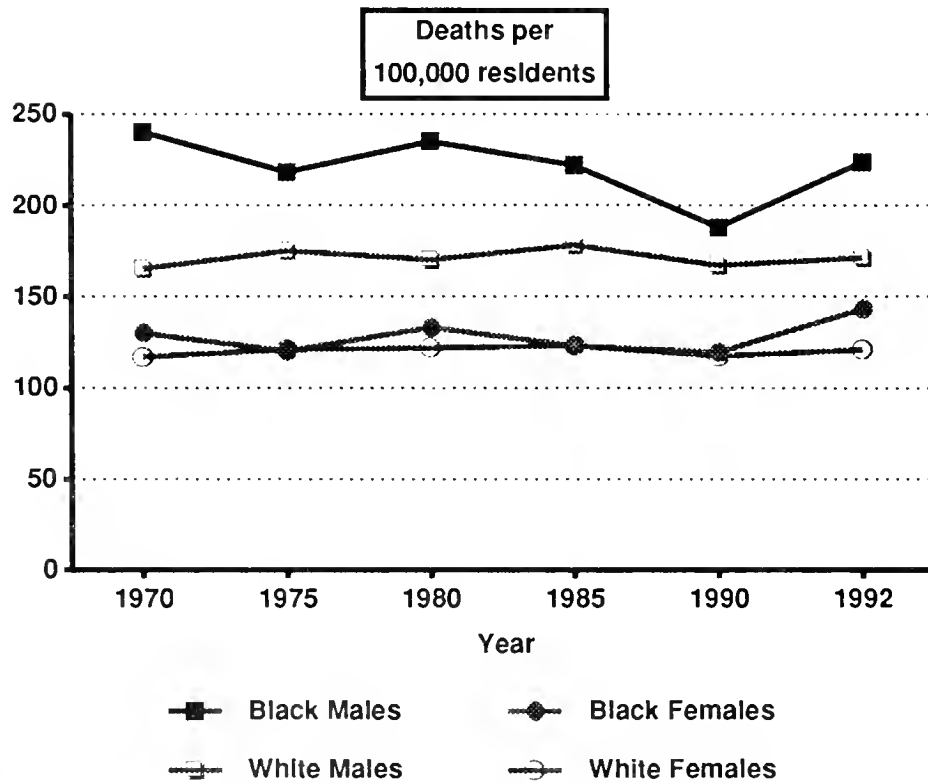
Cause of Death	ICD-9 Code	Total		Male		Female	
		Number	Rate <sup>2</sup>	Number	Rate	Number	Rate
Total Deaths		53,804	463.2	26,034	610.4	27,770	361.7
Total Cancer Deaths	140-208	14,174	139.7	7,128	170.4	7,046	120.2
Esophagus	150	322	3.4	244	6.3	78	1.2
Stomach	151	374	3.3	184	4.3	190	2.6
Colon, rectum, rectosigmoid junction and anus	153-154	1,711	14.5	837	18.9	874	11.5
Pancreas	157	684	6.4	324	7.9	360	5.2
Trachea, bronchus and lung	162	3,649	39.1	2,137	53.5	1,512	29.0
Female breast	174	1,249	23.8	0	0.0	1,249	23.8
Ovary and other uterine adnexa	183	372	6.8	0	0.0	372	6.8
Prostate	185	871	17.0	871	17.0	0	0.0
Brain	191	281	3.6	150	4.3	131	3.0
Lymphosarcoma and reticulosarcoma, Hodgkin's disease and other cancers of lymphoid and histiocytic tissue	200-202	593	6.0	298	7.5	295	4.8
All other cancers	Residual	4,068	40.0	2,083	50.8	1,985	32.5

<sup>1</sup> All rates are age-adjusted by the direct method using 1940 U.S. Census data. Rates are per 100,000 population.

<sup>2</sup> The total resident population is used to calculate all "Total Rates" except for ICD-9 Codes 174 and 183, which are based only on the total female population, and ICD-9 Code 185, which is based only on the total male population.

Figure C-5

**Cancer Deaths by Race and Sex  
Age-Adjusted Rates  
Massachusetts: 1970-1992**



**TABLE C-12**  
**MEDICAL EXAMINER CERTIFIED DEATHS**  
**BY CAUSE, RACE, SEX AND AGE**  
**MASSACHUSETTS OCCURRENCE**  
**1992**

AGE	RACE/SEX	Total Deaths Certified by Medical Examiner	Motor Vehicle Injuries (E810-E823)	Suicide (E950-E959)	Homicide (E960-E969)	Legal Intervention/ Undeter. Injury (E970-E999)	All Other Injuries (E800-E807, E825-E949)	Non-violent Causes (000-778)	Ill-Defined & Unknown Causes (780-796)
TOTAL <sup>1</sup>	White M	2,824	322	406	98	201	252	1,465	80
	White F	1,333	161	104	54	59	107	797	51
	Black M	260	15	20	64	17	21	119	4
	Black F	113	7	3	14	9	8	65	7
	Other M	40	10	9	1	1	2	14	3
	Other F	19	2	3	2	0	1	8	3
	Total	4,589	517	545	233	287	391	2,468	148
< 1	White M	50	1	0	2	0	1	8	38
	White F	28	0	0	2	0	2	4	20
	Black M	9	0	0	2	0	0	3	4
	Black F	12	0	0	1	0	0	6	5
	Other M	1	0	0	0	0	0	0	1
	Other F	2	0	0	0	0	0	0	2
	Total	102	1	0	7	0	3	21	70
1-14	White M	52	11	3	9	0	21	7	1
	White F	34	9	2	2	0	11	9	1
	Black M	15	0	1	2	0	8	4	0
	Black F	6	0	0	2	1	1	2	0
	Other M	1	0	0	0	0	1	0	0
	Other F	2	0	0	0	0	1	1	0
	Total	110	20	6	15	1	43	23	2
15-19	White M	69	31	12	11	3	9	2	1
	White F	24	13	5	2	2	0	2	0
	Black M	24	2	1	18	0	3	0	0
	Black F	4	1	0	2	0	0	0	1
	Other M	3	2	1	0	0	0	0	0
	Other F	1	1	0	0	0	0	0	0
	Total	125	50	19	33	5	12	4	2

<sup>1</sup> Total includes one white male of unknown age and one white female of unknown age.

**TABLE C-12 (continued)**  
**MEDICAL EXAMINER CERTIFIED DEATHS**  
**BY CAUSE, RACE, SEX AND AGE**  
**MASSACHUSETTS OCCURRENCE**  
**1992**

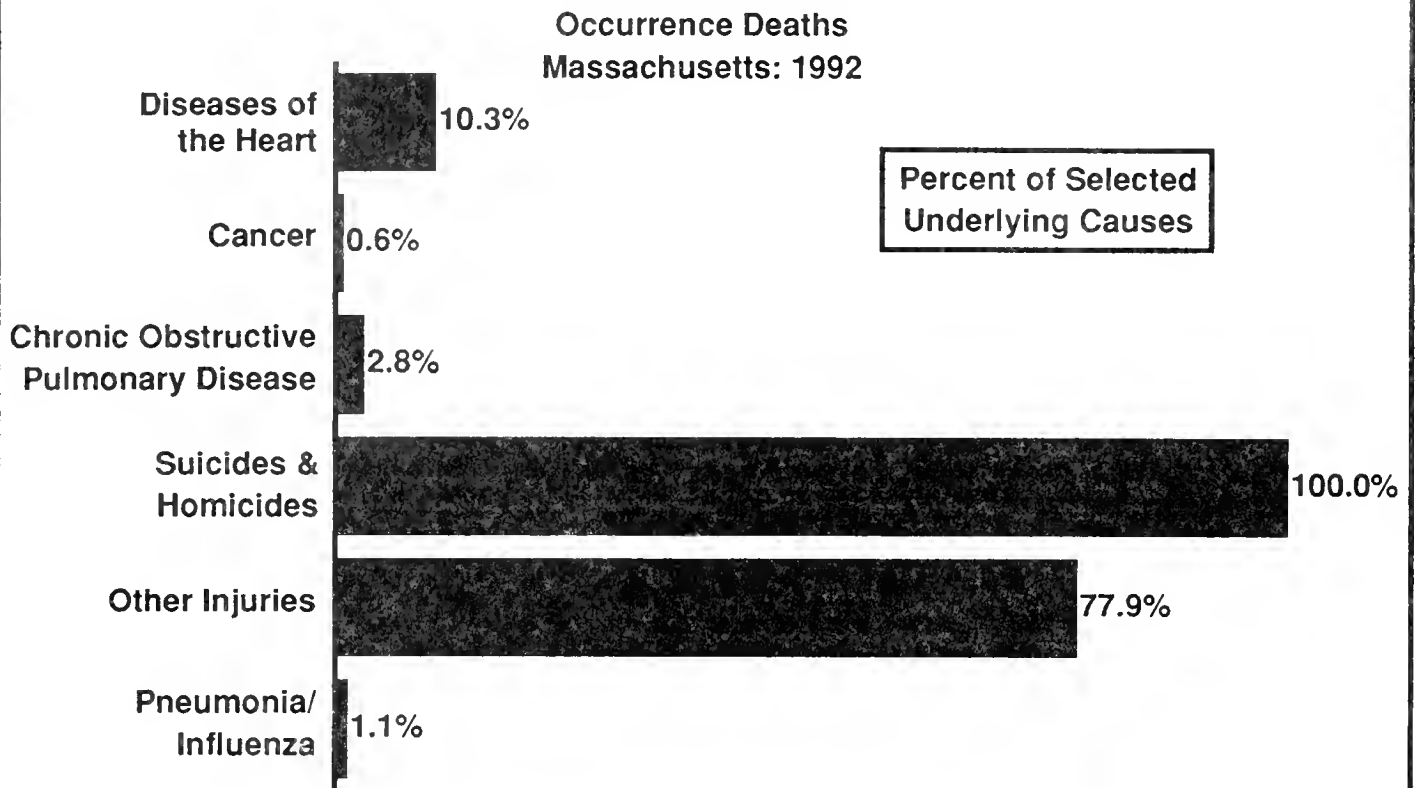
AGE	RACE/SEX	Total Deaths Certified by Medical Examiner	Motor Vehicle Injuries (E810-E823)	Suicide (E950-E959)	Homicide (E960-E969)	Legal Intervention/ Undeter. Injury (E970-E999)	All Other Injuries (E800-E807, E825-E949)	Non-violent Causes (000-778)	Ill-Defined & Unknown Causes (780-796)
20-29	White M	323	92	90	25	43	27	37	9
	F	96	28	14	18	10	8	18	0
	Black M	50	6	7	25	2	3	7	0
	F	9	0	1	4	2	0	2	0
	Other M	11	3	4	0	0	1	3	0
30-39	F	3	0	2	1	0	0	0	0
	Total	492	129	118	73	57	39	67	9
	White M	496	65	95	33	87	45	159	12
	F	159	19	29	13	27	6	48	17
	Black M	52	5	7	10	7	4	19	0
40-49	F	26	4	1	4	4	1	11	1
	Other M	5	1	2	0	1	0	0	1
	F	1	0	0	0	0	0	1	0
	Total	739	94	134	60	126	56	238	31
	White M	465	31	71	5	57	41	252	8
50-59	F	145	16	23	7	11	6	77	5
	Black M	34	1	2	5	6	1	19	0
	F	12	0	0	1	2	1	8	0
	Other M	7	3	0	0	0	0	3	1
	F	3	0	1	1	0	0	1	0
50-59	Total	666	51	97	19	76	49	360	14
	White M	335	16	47	5	6	19	242	0
	F	101	9	8	1	5	8	67	3
	Black M	30	1	1	1	2	1	24	0
	F	11	0	0	0	0	3	8	0
50-59	Other M	4	1	1	0	0	0	2	0
	F	4	1	0	0	0	0	2	1
	Total	465	28	57	7	13	31	345	4

**TABLE C-12 (continued)**  
**MEDICAL EXAMINER CERTIFIED DEATHS**  
**BY CAUSE, RACE, SEX AND AGE**  
**MASSACHUSETTS OCCURRENCE**  
**1992**

AGE	RACE/SEX	Total Deaths Certified by Medical Examiner	Motor Vehicle Injuries (E810-E823)	Suicide (E950-E959)	Homicide (E960-E969)	Legal Intervention/ Undeter. Injury (E970-E999)	All Other Injuries (E800-E807, E825-E949)	Non-violent Causes (000-778)	Ill-Defined & Unknown Causes (780-796)
60-69	White M	401	23	39	6	3	23	303	4
	White F	185	24	11	6	3	9	130	2
	Black M	28	0	0	1	0	0	27	0
	Black F	10	2	1	0	0	0	7	0
	Other M	0	0	0	0	0	0	0	0
70-79	Other F	1	0	0	0	0	0	1	0
	Total	625	49	51	13	6	32	468	6
> 80	White M	387	27	33	2	2	37	282	4
	White F	244	20	5	1	0	18	199	1
	Black M	13	0	1	0	0	0	12	0
	Black F	14	0	0	0	0	2	12	0
	Other M	3	0	1	1	0	0	1	0
> 80	Other F	0	0	0	0	0	0	0	0
	Total	661	47	40	4	2	57	506	5
> 80	White M	245	25	15	0	0	29	173	3
	White F	316	23	7	2	1	39	242	2
	Black M	5	0	0	0	0	1	4	0
	Black F	9	0	0	0	0	0	9	0
	Other M	5	0	0	0	0	0	5	0
> 80	Other F	2	0	0	0	0	0	2	0
	Total	582	48	22	2	1	69	435	5

Figure C-6

## Proportion of Deaths Certified by Medical Examiner for Selected Causes of Death





**TABLE C-13**  
**MEDICAL EXAMINER CERTIFIED DEATHS BY COUNTY**  
**MASSACHUSETTS OCCURRENCE**  
**1992**

County		Population	Occurrence Deaths	M.E. Certified <sup>1</sup>	Referred--Not Certified By M.E. <sup>1</sup>	Natural Cause Deaths Certified by M.E. <sup>2</sup>
TOTAL	# % Rank	6,060,943 100.0 --	54,645 100.0 <sup>3</sup> --	4,589 8.4 --	10,372 19.0 --	2,518 54.9 --
Barnstable	# % Rank	194,658 3.2 9	2,226 4.1 9	209 9.4 4	427 19.2 4	136 65.1 2
Berkshire	# % Rank	139,370 2.3 11	1,584 2.9 10	122 7.7 9	276 17.4 8	70 57.4 7
Bristol	# % Rank	505,155 8.3 6	4,405 8.1 7	405 9.2 5	790 17.9 7	226 55.8 8
Dukes	# % Rank	12,139 0.2 13	98 0.2 13	14 14.3 1	9 9.2 11	6 42.9 12
Essex	# % Rank	672,646 11.1 3	5,801 10.6 4	515 8.9 6	845 14.6 10	322 62.5 3
Franklin	# % Rank	71,038 1.2 12	623 1.1 12	53 8.5 7	91 14.6 10	24 45.3 11
Hampden	# % Rank	455,236 7.5 7	4,757 8.7 6	364 7.7 9	1,066 22.4 1	177 48.6 10
Hampshire	# % Rank	148,626 2.5 10	995 1.8 11	65 6.5 12	184 18.5 6	24 36.9 14
Middlesex	# % Rank	1,409,207 23.3 1	10,519 19.2 1	730 6.9 11	2,259 21.5 2	451 61.8 5
Nantucket	# % Rank	6,470 0.1 14	63 0.1 14	3 4.8 13	5 7.9 12	2 66.7 1
Norfolk	# % Rank	625,858 10.3 5	4,801 8.8 5	354 7.4 10	977 20.3 3	219 61.9 4
Plymouth	# % Rank	437,302 7.2 8	2,918 5.3 8	309 10.6 2	553 19.0 5	188 60.8 6
Suffolk	# % Rank	671,585 11.1 4	9,340 17.1 2	923 9.9 3	1,565 16.8 9	457 49.5 5
Worcester	# % Rank	711,653 11.7 2	6,515 11.9 3	523 8.0 8	1,325 20.3 3	216 41.3 13

<sup>1</sup> The percentages and ranks in the Medical Examiner Certified Deaths column and the Referred--Not Certified by Medical Examiner column are based on the totals in the Occurrence Deaths column.

<sup>2</sup> The percentages and ranks of natural cause deaths certified by medical examiners are based on the total number of medical examiner certified deaths for each county.

<sup>3</sup> Percents do not sum to 100.0 due to rounding

TABLE C-14A  
SELECTED CAUSES OF DEATH BY CITY AND TOWN OF RESIDENCE  
1992

	HEART DISEASES (390-398, 402, 404-429)	MALIGNANT NEOPLASMS (140-209)	CEREBROVASCULAR DISEASE (430-438)	MOTOR VEHICLE ACCIDENTS (810-825)	OTHER ACCIDENTS (800-807,826-949)	INFLUENZA & PNEUMONIA (480-487)	CHRONIC OBSTRUCTIVE PULMONARY (490-496)	DIABETES MELLITUS (250)	CHRONIC LIVER DIS. & CIRRHOSIS (571)	ATHEROSCLEROSIS (440)	SUICIDE (950-959)	ALL OTHER CAUSES	TOTAL
ABINGTON	32	32	10	3	1	2	3	1	1	1	0	26	112
ACTION	27	29	7	1	2	9	1	4	1	2	0	16	99
ACUSHNET	23	25	4	1	0	4	1	0	0	1	0	15	75
ADAMS	44	35	5	1	2	5	6	6	2	1	1	33	139
AGANAM	78	67	14	3	5	16	9	4	4	0	3	46	251
ALFORD	0	1	0	0	0	0	0	0	0	0	0	0	1
AMESBURY	42	35	8	1	3	6	6	3	1	1	1	23	130
AMHERST	42	31	8	1	1	4	2	0	0	0	2	23	114
ANDOVER	69	60	7	4	2	5	8	5	3	0	3	39	205
ARLINGTON	132	127	25	5	6	18	13	14	4	3	5	104	456
ASHBURNHAM	12	9	2	4	1	0	2	0	1	1	0	7	39
ASHBY	6	4	0	0	0	0	1	0	0	0	0	5	16
ASHFIELD	1	4	1	0	1	1	0	1	0	0	1	3	13
ASHLAND	20	19	5	1	0	3	2	1	1	0	1	15	68
ATHOL	39	27	2	2	1	2	3	5	0	1	3	25	110
ATTLEBORO	107	86	30	4	8	11	14	8	8	1	5	59	341
AUBURN	48	51	6	0	6	9	1	5	1	0	2	28	157
AVON	9	16	3	1	0	4	1	1	2	0	0	4	41
AYER	22	19	5	3	2	2	2	1	0	0	0	16	72
BARNSTABLE	122	123	29	3	7	20	24	12	3	6	5	82	436
BARRE	10	11	3	0	0	1	2	0	0	0	0	6	33
BECKET	5	1	0	0	0	0	1	0	0	1	1	1	10
BEDFORD	43	31	5	1	2	8	7	0	3	0	4	24	128
BELCHERTOWN	22	17	5	1	2	0	1	4	1	0	1	12	66
BELLINGHAM	24	23	4	1	0	0	7	1	0	1	1	13	75
BELMONT	75	69	16	0	6	8	9	3	5	0	0	46	237
BERKLEY	9	4	0	1	1	0	0	0	0	0	0	4	19
BERLIN	3	4	1	0	0	1	0	0	0	0	0	3	12
BERNARDSTON	6	3	0	0	0	0	3	0	0	0	0	5	17
BEVERLY	117	119	26	3	2	25	14	8	3	3	3	79	402
BILLERICA	66	78	13	3	0	11	14	5	0	3	3	37	233
BLACKSTONE	19	11	4	0	1	3	1	0	0	0	1	5	45
BLANDFORD	1	1	0	0	0	2	0	0	0	0	0	1	5
BOLTON	4	8	0	0	0	0	1	0	0	0	0	2	15
BOSTON	1470	1191	259	28	79	253	181	123	66	19	45	1416	5130
BOURNE	52	33	20	7	2	7	8	1	1	1	2	31	165
BOXBOROUGH	4	3	0	0	0	0	0	0	0	1	0	0	8
BOXFORD	11	4	2	2	0	2	1	1	0	0	1	7	31
BOYLSTON	12	9	1	0	0	1	2	0	0	0	0	12	37
BRAINTREE	121	84	41	2	10	29	12	9	5	0	4	88	405

BREWSTER	29	19	6	1	1	7	4	1	1	4	1	20	94
BRIDGEWATER	41	29	7	0	1	5	5	3	0	1	2	27	121
BRIMFIELD	7	12	0	0	0	0	1	1	0	0	0	7	28
BROCKTON	245	180	50	2	14	44	38	19	6	6	16	175	795
BROOKFIELD	10	9	2	0	0	1	2	0	1	0	0	7	32
BROOKLINE	143	140	29	4	4	31	14	3	7	1	4	113	493
BUCKLAND	7	0	0	1	0	1	2	1	0	0	0	3	15
BURLINGTON	39	43	4	4	0	5	7	2	4	0	1	25	134
CAMBRIDGE	180	182	51	3	9	39	26	16	9	1	7	163	686
CANTON	59	42	11	4	2	6	5	1	1	1	2	29	163
CARLISLE	9	6	4	0	0	0	1	1	0	0	0	6	27
CARVER	30	29	4	1	0	0	3	1	3	0	0	7	78
CHARLEMONT	6	1	1	1	0	0	1	0	0	0	0	1	11
CHARLTON	22	29	5	1	1	2	4	2	0	0	1	10	77
CHATHAM	42	27	10	2	2	5	4	2	2	4	3	21	124
CHELMSFORD	53	61	18	2	1	10	15	3	4	2	5	30	204
CHELSEA	75	74	9	2	4	6	16	5	4	1	5	70	271
CHESTER	9	7	1	0	0	0	1	0	1	0	0	4	22
CHESTERFIELD	6	6	0	0	0	1	1	0	0	0	0	0	14
CHESTERFIELD	2	1	3	0	0	0	0	0	0	0	0	2	8
CHICOPEE	192	135	39	7	7	28	23	19	15	3	3	100	571
CHILMARK	4	0	1	0	0	0	0	0	0	0	0	1	6
CLARKSBURG	4	4	2	1	0	0	0	1	0	0	0	3	15
CLINTON	48	46	8	1	2	2	2	3	1	0	2	31	146
COHASSET	17	19	7	0	0	3	0	3	0	0	0	8	57
COLRAIN	5	2	0	0	1	1	0	0	0	0	0	1	10
CONCORD	34	30	16	1	1	11	3	3	1	2	0	16	118
CONWAY	4	2	1	1	0	1	1	0	0	0	1	2	13
CUMMINGTON	1	3	0	1	0	0	0	0	0	0	0	2	7
DALTON	25	15	4	0	1	2	6	2	1	0	0	13	69
DANVERS	103	62	7	3	1	25	6	4	2	1	2	41	257
DARTMOUTH	99	63	17	2	2	9	9	7	2	5	2	39	256
DEDHAM	58	57	11	3	2	4	9	5	3	3	1	49	205
DEERFIELD	5	12	5	1	0	1	4	1	0	0	2	5	36
DENNIS	65	63	19	1	3	13	9	10	1	4	2	28	218
DIGHTON	16	18	2	0	1	0	0	1	2	0	2	10	52
DOUGLAS	8	8	1	1	0	1	1	1	1	0	2	9	33
DOVER	8	7	5	0	1	3	0	1	0	0	0	4	29
DRACUT	59	54	9	3	4	1	10	2	1	1	2	28	174
UDLEY	16	23	0	3	2	6	4	3	1	1	2	10	71
DUNSTABLE	3	5	1	0	1	0	1	0	0	0	0	2	13
DUXBURY	28	29	2	1	2	4	1	0	1	0	2	25	95
EAST BRIDGEWATER	24	32	3	1	1	2	5	0	0	2	0	17	87
EAST BROOKFIELD	7	2	0	0	0	1	0	1	0	0	1	1	13
EAST LONGMEADOW	41	31	8	2	2	13	3	6	2	1	1	31	141
EASTHAM	23	20	4	1	2	0	1	1	0	1	0	13	66
EASTHAMPTON	53	41	10	4	2	10	5	4	2	0	0	24	155
EASTON	34	38	5	1	3	3	5	0	0	0	0	27	116
EDGARTOWN	11	7	2	1	0	1	0	1	0	0	0	5	29
EGREMONT	4	4	0	0	0	0	1	0	0	0	0	0	9

TABLE C-14A (CONTINUED)  
SELECTED CAUSES OF DEATH BY CITY AND TOWN OF RESIDENCE  
1992

	HEART DISEASES (390-398, 402, 404-429)	MALIGNANT NEOPLASMS (140-209)	CEREBROVASCULAR DISEASE (430-438)	MOTOR VEHICLE ACCIDENTS(810-825)	OTHER ACCIDENTS (800-807,826-949)	INFLUENZA & PNEUMONIA (480-487)	CHRONIC OBSTRUCTIVE PULMONARY (490-496)	DIABETES MELLITUS (250)	CHRONIC LIVER DIS. & CIRRHOSIS (571)	ATHEROSCLEROSIS (440)	SUICIDE (950-959)	ALL OTHER CAUSES	TOTAL
ERVING	3	3	0	0	0	0	0	0	0	0	0	2	8
ESSEX	5	10	3	0	0	1	1	1	0	0	1	6	28
EVERETT	126	111	11	2	10	9	18	6	4	0	4	96	397
FAIRHAVEN	81	48	10	4	2	2	4	5	2	7	1	26	192
FALL RIVER	393	267	69	6	9	40	29	43	12	6	7	187	1068
FALMOUTH	122	82	29	4	3	16	21	6	4	0	6	49	342
FITCHBURG	121	96	23	5	3	13	26	12	17	3	4	89	412
FLORIDA	2	1	0	0	0	0	0	0	0	0	0	2	5
FOXBOROUGH	28	27	10	2	1	8	4	0	2	0	1	22	105
FRAMINGHAM	135	132	31	5	8	25	16	4	3	1	8	110	478
FRANKLIN	42	37	5	3	0	4	4	1	2	0	1	31	130
FREETOWN	22	13	2	0	0	2	5	0	0	0	0	3	47
GARNER	69	67	18	4	3	9	13	4	3	0	5	45	240
GAY HEAD	2	1	0	0	0	0	0	0	0	0	0	2	5
GEORGETOWN	10	10	2	0	0	1	5	0	0	0	1	9	38
GILL	4	4	2	0	0	1	2	0	1	0	0	1	15
GLOUCESTER	76	70	10	1	5	10	12	6	1	4	2	36	233
GOSHEN	0	1	0	0	0	0	1	0	0	0	0	0	2
GOSNOLD	0	0	0	0	0	0	0	0	0	0	0	0	0
GRAFTON	32	25	8	1	0	5	2	3	1	0	4	8	89
GRANBY	22	15	2	0	0	1	0	2	2	0	0	8	52
GRANVILLE	4	3	0	1	0	0	0	0	0	0	1	2	11
GREAT BARRINGTON	30	22	7	2	1	8	4	7	1	1	2	18	103
GREENFIELD	84	53	27	1	6	20	14	5	2	0	7	45	264
GROTON	6	6	0	3	1	0	1	2	0	0	2	2	23
GROVELAND	10	7	0	1	0	0	3	1	0	0	1	12	35
HADLEY	9	11	4	0	0	1	4	0	0	1	2	11	43
HALIFAX	14	23	3	0	0	3	2	2	1	0	0	6	54
HAMILTON	16	8	5	0	1	1	0	0	1	1	2	6	41
HAMPDEN	10	12	0	0	0	3	1	1	0	0	0	5	32
HANCOCK	2	0	0	0	0	0	2	0	0	0	0	0	4
HANOVER	36	21	6	0	1	2	2	1	2	0	1	20	92
HANSON	12	17	2	1	0	1	2	0	0	0	1	17	53
HARDWICK	5	5	3	0	0	1	1	0	1	0	0	3	19
HARVARD	6	7	4	0	1	0	0	0	0	0	0	4	22
HARMICH	39	46	8	0	5	11	10	1	2	16	0	32	170
HATFIELD	7	9	1	0	2	0	1	1	1	0	1	7	29
HAVERHILL	208	109	42	7	7	18	30	5	5	14	6	86	537
HAWLEY	2	0	0	0	0	0	0	1	0	0	0	0	3
HEATH	3	0	1	0	0	0	0	0	0	0	0	0	4

HINGHAM	45	42	10	3	2	9	6	1	3	2	2	30	155
HINSDALE	12	4	1	0	0	2	1	0	0	0	0	3	23
HOLBROOK	17	27	6	1	1	6	6	2	1	1	1	16	85
HOLDEN	31	30	4	0	5	7	6	1	2	0	2	31	119
HOLLAND	2	2	1	0	0	0	1	0	0	0	0	1	7
HOLLISTON	13	27	4	0	0	3	0	1	3	0	0	18	69
HOLYOKE	183	139	55	7	15	21	18	14	5	3	4	127	591
HOPEDALE	14	13	4	0	1	5	0	1	0	0	0	10	48
HOPKINTON	5	19	5	1	0	0	2	1	1	0	1	11	46
HUBBARDSTON	3	1	0	0	2	0	0	0	0	0	2	2	10
HUDSON	27	35	5	3	1	5	8	3	2	0	1	25	115
HULL	24	22	0	0	0	2	3	2	1	0	2	17	73
HUNTINGTON	3	2	1	0	0	0	0	0	2	0	1	2	11
IPSWICH	28	33	5	3	0	7	4	2	1	0	4	15	102
KINGSTON	21	20	2	0	1	1	3	4	0	0	0	7	59
LAKEVILLE	18	15	7	2	0	4	2	0	0	0	1	8	57
LANCASTER	8	14	1	2	1	3	2	2	1	0	0	7	41
LANESBOROUGH	10	5	2	0	0	1	2	0	0	0	0	3	23
LAWRENCE	210	144	45	5	14	14	25	9	13	0	2	96	577
LEE	23	17	1	1	0	2	1	2	1	0	1	11	60
LEICESTER	22	20	4	2	1	5	5	1	2	0	1	8	71
LENOX	28	13	7	1	2	6	3	1	0	0	1	13	75
LEOMINSTER	102	87	27	2	5	18	8	5	7	0	4	69	334
LEVERETT	3	1	1	0	0	0	1	0	1	0	0	0	7
LEXINGTON	55	57	18	3	2	12	4	4	1	0	0	53	209
LEYDEN	0	3	0	0	0	0	0	0	0	0	0	1	4
LINCOLN	5	9	3	1	0	1	0	0	1	0	1	6	27
LITTLETON	22	17	5	4	0	4	1	1	1	3	2	14	74
LONGMEADOW	46	43	15	1	2	3	2	4	1	2	1	23	143
LOWELL	292	207	65	9	10	39	48	21	18	10	10	201	930
LUOLOW	67	37	10	2	1	6	3	1	1	1	0	26	155
LUNENBURG	23	12	5	1	0	0	2	1	1	0	0	6	51
LYNN	266	228	55	7	8	32	37	15	23	2	8	166	847
LYNNFIELD	21	27	5	0	1	4	1	0	0	0	1	18	78
MALDEN	169	149	34	1	8	24	24	20	4	1	1	104	539
MANCHESTER	13	15	2	0	0	5	2	0	1	0	1	5	44
MANSFIELD	36	17	4	3	3	2	2	0	3	0	1	9	80
MARBLEHEAD	56	52	12	0	2	4	2	3	3	1	5	31	171
MARION	11	13	7	0	0	2	3	0	0	0	1	6	43
MARLBOROUGH	88	58	15	4	4	11	10	5	4	1	5	39	244
MARSHFIELD	61	49	6	3	1	6	10	6	2	0	0	20	164
MASHPEE	19	25	4	2	1	3	1	1	2	2	0	11	71
MATTAPOISETT	17	15	5	0	0	1	3	0	0	0	1	15	57
MAYNARD	21	33	2	1	3	4	5	4	2	2	0	10	87
NEOFIELD	14	19	3	0	0	2	1	2	2	1	2	10	56
MEDFORD	204	153	25	1	4	25	27	15	6	1	2	115	578
MEDWAY	18	16	3	2	1	4	3	0	0	0	1	6	54
MELROSE	90	79	23	1	3	8	10	6	1	3	1	47	272
MENDON	7	9	2	1	0	1	0	1	1	0	0	5	27
MERRIMAC	15	5	0	0	0	1	1	1	0	0	0	8	31

TABLE C-14A (CONTINUED)  
SELECTED CAUSES OF DEATH BY CITY AND TOWN OF RESIDENCE  
1992

	HEART DISEASES (390-398, 402, 404-429)	MALIGNANT NEOPLASMS (140-209)	CEREBROVASCULAR DISEASE (430-438)	MOTOR VEHICLE ACCIDENTS(810-825)	OTHER ACCIDENTS (800-807,826-949)	INFLUENZA & PNEUMONIA (480-487)	CHRONIC OBSTRUCTIVE PULMONARY (490-496)	DIABETES MELLITUS (250)	CHRONIC LIVER DIS. & CIRRHOSIS (571)	ATHEROSCLEROSIS (440)	SUICIDE (950-959)	ALL OTHER CAUSES	TOTAL
METHUEN	135	117	27	4	5	9	20	8	5	1	3	66	400
MIDDLEBOROUGH	68	43	7	2	2	12	4	2	2	1	1	25	169
MIDDLEFIELD	1	1	0	0	0	0	0	0	0	0	0	0	2
MIDDLETON	11	14	2	0	0	0	1	1	0	1	0	5	35
MILFORD	60	65	8	2	2	11	6	5	3	1	2	31	196
MILLBURY	41	30	6	2	0	10	5	4	1	1	1	29	130
MILLIS	7	14	1	2	0	1	1	1	1	1	0	10	39
MILLVILLE	5	5	0	0	0	1	1	0	0	0	0	3	15
MILTON	83	77	15	3	2	12	7	9	4	1	2	46	261
MONROE	0	0	0	0	0	0	0	0	0	0	0	0	0
MONSON	27	21	3	0	2	3	1	0	0	0	2	10	69
MONTAGUE	39	26	4	1	2	10	3	2	1	0	2	23	113
MONTGOMERY	0	1	0	0	0	0	1	0	0	0	0	1	3
MOUNT WASHINGTON	0	0	0	0	0	3	0	0	0	0	0	0	4
NAHANT	9	9	0	0	0	0	0	0	0	0	0	2	2
NAHANT	9	9	1	1	0	3	2	0	0	1	1	5	32
NANTUCKET	16	21	6	1	1	3	5	1	1	0	1	10	66
NATICK	78	68	21	6	3	7	8	7	4	0	1	51	254
NEEDHAM	84	70	13	0	4	14	11	4	3	2	1	44	250
NEW ASHFORD	0	1	0	0	0	0	0	0	0	0	0	0	1
NEW BEDFORD	404	263	96	14	20	48	37	33	20	17	14	203	1169
NEW BRAINTREE	1	0	0	0	1	0	0	0	0	0	0	0	2
NEW MARLBOROUGH	1	3	1	0	0	0	1	0	0	0	0	1	7
NEW SALEM	0	3	1	0	0	0	1	0	0	0	0	0	5
NEWBURY	15	13	3	0	1	2	0	0	1	0	0	5	40
NEWBURYPORT	58	39	12	3	3	12	12	4	1	2	0	22	168
NEWTON	200	196	65	5	7	37	17	12	7	2	2	127	677
NORFOLK	13	12	4	0	0	0	5	1	1	0	0	5	41
NORTH ADAMS	68	46	16	5	2	11	5	2	5	0	1	19	180
NORTH ANDOVER	60	40	13	1	0	5	6	8	4	1	1	24	163
NORTH ATTLEBORO	75	43	11	2	0	5	8	7	3	0	2	35	191
NORTH BROOKFIELD	8	11	3	0	0	3	1	1	0	0	0	9	36
NORTH READING	12	22	4	0	0	2	4	2	0	1	3	16	66
NORTHAMPTON	93	76	19	3	5	18	13	3	2	2	2	57	293
NORTHBOROUGH	24	20	6	0	0	2	4	0	2	0	0	13	71
NORTHBOROUGH	45	30	5	1	1	9	5	1	0	0	0	31	128
NORTHBRIDGE	9	10	4	0	0	0	0	2	0	0	0	4	29
NORTHFIELD	22	30	6	2	1	3	6	1	2	0	1	12	86
NORTON	20	27	8	0	1	3	2	1	0	0	0	10	72
NORWELL	98	85	21	0	4	15	19	5	1	2	3	69	322

OAK BLUFFS	5	8	3	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	9	29
OAKHAM	3	1	2	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	10
ORANGE	19	22	4	0	1	1	0	0	1	0	0	0	0	0	0	0	0	1	11	60
ORLEANS	30	23	7	0	1	8	6	0	0	0	4	2	2	15	96			2	15	
OTIS	3	3	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	10
OXFORD	21	25	7	1	1	8	7	2	2	1	0	0	0	0	0	0	0	20	94	
PALMER	51	28	4	2	2	3	6	2	2	2	0	2	2	16	118			2	16	
PAXTON	4	13	2	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	21	
PEABODY	122	116	19	3	4	24	9	11	5	4	2	2	2	63	382			2	63	
PELHAM	3	2	2	0	0	0	0	1	1	1	0	0	0	0	1	0	0	1	10	
PEMBROKE	36	26	2	1	2	2	2	6	1	1	0	0	0	0	3	20		3	20	
PEPPERELL	17	14	4	0	2	4	3	3	0	0	0	0	0	0	0	10		0	10	
PERU	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0		0	0	
PETERSHAM	2	6	0	0	0	0	1	0	0	0	0	0	0	1	2			1	2	
PHILLIPSTON	3	1	0	0	0	1	1	0	0	0	0	0	0	0	0	4		0	4	
PITTSFIELD	165	139	34	9	8	15	24	15	7	6	3	3	3	84	509			0	84	
PLAINFIELD	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	
PLAINVILLE	20	11	3	1	0	2	6	0	0	0	0	0	0	1	11	55		1	11	
PLYMOUTH	126	97	14	6	5	15	17	7	2	2	2	2	2	74	367			2	74	
PLYMPTON	4	0	1	0	1	0	0	0	0	0	0	0	0	0	2	8		0	2	
PRINCETON	1	3	0	1	0	0	0	1	0	0	0	0	0	0	0	0		0	4	
PROVINCETOWN	12	12	5	0	1	4	1	3	0	2	0	0	0	0	0	20		0	20	
QUINCY	298	285	59	5	12	39	29	19	7	7	0	10	4	185	948			0	185	
RANDOLPH	107	77	12	5	5	9	20	5	3	0	1	1	1	52	300			4	52	
RAYNHAM	21	25	3	3	0	3	5	3	0	1	1	1	1	6	71			1	6	
READING	63	51	11	2	0	9	7	5	1	1	1	1	1	37	188			1	37	
REHOBOTH	15	9	6	2	0	1	1	0	0	0	0	0	0	3	38			1	3	
REVERE	157	133	19	6	4	18	19	13	8	1	1	5	5	79	462			5	79	
RICHMOND	1	1	0	0	0	0	0	0	0	0	0	0	0	3	5			0	3	
ROCHESTER	7	10	1	0	0	2	1	0	1	0	0	0	0	1	23			0	1	
ROCKLAND	48	38	3	0	0	5	6	7	1	1	1	1	1	21	131			1	21	
ROCKPORT	34	36	4	1	2	2	2	1	1	1	1	1	1	20	105			1	20	
ROWE	0	2	2	0	0	0	0	0	0	0	0	0	0	2	6			0	2	
ROWLEY	9	6	2	0	0	0	1	1	0	0	0	0	0	4	23			0	4	
ROYALSTON	1	2	0	0	1	0	0	0	0	0	0	0	0	1	8			1	3	
RUSSELL	4	5	0	0	0	1	0	0	0	0	0	0	0	0	1	11		0	1	
RUTLAND	6	17	1	0	0	2	2	1	0	0	0	0	0	7	36			0	7	
SALEM	141	110	16	1	4	17	17	7	11	0	0	2	2	76	402			0	76	
SALISBURY	21	26	5	2	1	3	2	2	0	0	0	1	1	10	73			1	10	
SANDISFIELD	3	1	0	0	0	0	0	0	0	0	0	0	0	3	7			0	3	
SANDWICH	38	40	4	1	1	7	5	1	0	0	0	0	0	23	120			0	23	
SAUGUS	83	75	9	3	3	10	15	4	3	1	1	1	1	41	248			1	41	
SAVOY	4	1	0	0	0	0	0	0	0	0	0	0	0	0	5			0	0	
SCITUATE	47	42	11	2	3	9	4	3	1	3	3	0	0	34	159			0	34	
SEEKONK	27	25	2	2	2	7	4	2	0	0	0	1	1	14	86			0	14	
SHARON	32	30	4	0	2	2	1	2	0	0	0	0	0	19	93			1	19	
SHEFFIELD	7	12	2	3	0	1	1	0	0	0	0	0	0	4	30			0	4	
SHELBURNE	13	2	3	0	1	1	1	1	0	0	0	0	0	2	24			0	2	
SHERBORN	6	0	0	0	1	0	0	1	0	0	0	0	0	2	10			0	2	
SHIRLEY	11	7	0	1	0	0	3	1	1	2	1	0	0	0	29			0	0	

TABLE C-14A (CONTINUED)  
SELECTED CAUSES OF DEATH BY CITY AND TOWN OF RESIDENCE  
1992

	HEART DISEASES (390-398, 402, 404-429)	MALIGNANT NEOPLASMS (140-209)	CEREBROVASCULAR DISEASE (430-438)	MOTOR VEHICLE ACCIDENTS (810-825)	OTHER ACCIDENTS (800-807, 826-949)	INFLUENZA & PNEUMONIA (480-487)	CHRONIC OBSTRUCTIVE PULMONARY (490-496)	DIABETES MELLITUS (250)	CHRONIC LIVER DIS. & CIRRHOSIS (571)	ATHEROSCLEROSIS (440)	SUICIDE (950-959)	ALL OTHER CAUSES	TOTAL
SHREWSBURY	75	75	17	1	5	13	4	7	2	8	2	35	244
SHUTESBURY	0	3	0	0	0	1	0	0	0	0	0	0	4
SOMERSET	74	42	6	3	1	10	6	2	0	5	3	21	173
SOMERVILLE	197	188	28	3	7	31	17	16	7	6	10	144	654
SOUTH HADLEY	44	47	13	2	0	11	7	4	5	3	2	20	158
SOUTHAMPTON	7	7	2	2	1	0	2	0	1	1	1	2	26
SOUTHBOROUGH	6	14	0	1	0	0	0	0	0	0	0	5	26
SOUTHBURGH	64	41	10	1	2	8	9	5	1	1	1	33	176
SOUTHBURIDGE	14	13	7	0	0	2	2	1	1	0	1	10	51
SOUTHWICK	32	21	5	0	2	0	5	4	2	1	4	14	90
SPENCER													
SPRINGFIELD	470	366	85	16	15	68	63	43	29	8	8	395	1566
STERLING	8	16	1	3	1	1	0	0	0	0	0	7	37
STOCKBRIDGE	1	5	3	0	0	3	3	0	0	0	0	0	15
STONEHAM	59	53	15	0	2	11	15	1	2	0	2	38	198
STOUGHTON	73	61	11	3	4	5	9	2	6	0	3	41	218
STOW	7	3	0	0	0	1	0	0	0	0	1	6	18
STURBRIDGE	21	10	6	2	1	2	3	2	1	1	2	15	66
SUBURY	18	21	4	2	0	3	2	0	2	0	2	7	61
SUNDERLAND	8	2	4	0	0	1	1	0	0	0	0	3	19
SUTTON	9	8	1	0	1	1	2	2	0	1	1	5	31
SWAMPSCOTT													
SWANSEA	47	35	16	0	3	8	7	2	0	0	0	36	154
TAUNTON	40	41	6	2	2	1	3	4	1	1	2	28	131
TEMPLETON	170	113	41	13	4	17	19	14	5	2	6	81	485
TEMBURY	27	19	5	1	0	4	3	4	0	0	1	10	74
TEMBURY	66	58	6	1	0	8	13	4	1	3	2	36	198
TISBURY	9	16	2	0	1	0	1	1	0	0	0	6	36
TOLLAND	1	0	0	1	1	0	0	0	0	0	0	1	4
TOPSFIELD	11	9	4	2	1	0	2	0	1	0	0	4	34
TOWNSEND	11	18	2	2	0	2	3	1	1	1	0	5	46
TRURO	3	5	1	0	0	1	0	0	0	0	0	3	13
TYNGBOROUGH													
TYRINGHAM	10	9	4	1	1	1	3	0	1	0	4	8	42
UPTON	0	0	0	0	0	0	0	0	0	0	0	1	1
UXBRIDGE	13	6	3	1	0	3	3	0	0	0	0	3	32
WAKEFIELD	26	20	6	0	2	2	6	2	0	0	0	16	80
WALSLEY	83	50	11	1	2	6	9	4	1	3	1	51	222
WALSLEY	1	5	0	0	0	2	1	0	0	0	0	1	10
WALPOLE	53	41	9	4	2	1	6	4	4	0	2	24	150
WALTHAM	140	125	28	3	8	28	19	14	5	9	4	113	496
WARE	54	30	4	2	1	4	4	0	1	0	0	18	118
WAREHAM	79	52	18	2	5	8	13	7	4	1	1	40	230



WARREN	12	13	2	2	1	1	4	0	0	0	0	0	3	38
WARWICK	2	4	0	0	0	0	1	1	0	0	0	0	0	8
WASHINGTON	3	3	0	0	0	2	0	0	0	0	0	1	1	10
WATERTOWN	105	86	20	3	3	12	17	10	6	3	2	2	60	327
WAYLAND	37	24	6	2	1	5	1	2	0	2	1	1	8	89
WEBSTER	61	50	7	1	3	8	7	5	3	1	2	2	33	181
WELLESLEY	57	48	11	2	4	7	5	1	0	1	2	2	33	171
WELLFLEET	8	13	1	0	1	0	1	1	0	0	1	1	5	31
WENDELL	1	0	0	0	0	1	0	0	0	0	1	1	1	4
WENHAM	4	8	1	1	0	0	2	0	0	0	0	0	5	21
WEST BOYLSTON	21	18	2	0	0	2	5	1	0	0	1	1	15	65
WEST BRIDGEWATER	12	20	5	0	2	1	4	0	0	0	2	2	6	52
WEST BROOKFIELD	9	7	3	0	1	1	3	0	0	0	0	0	7	33
WEST NEWBURY	9	7	3	0	1	0	0	0	0	0	1	1	1	22
WEST SPRINGFIELD	96	73	24	4	3	12	11	6	5	3	2	2	61	300
WEST STOCKBRIDGE	0	3	0	0	0	1	2	0	0	0	1	1	3	10
WEST TISBURY	2	2	0	0	0	0	0	0	0	0	0	0	2	6
WESTBOROUGH	44	22	8	0	2	9	5	2	1	0	1	1	32	126
WESTFIELD	114	89	21	3	6	12	24	4	4	0	5	5	47	329
WESTFORD	25	22	2	2	2	2	2	4	0	0	3	3	20	84
WESTHAMPTON	1	2	0	1	0	0	0	0	0	0	1	1	0	5
WESTMINSTER	13	18	2	1	2	2	1	1	1	0	2	2	3	46
WESTON	18	22	8	0	0	6	0	0	1	2	0	0	20	77
WESTPORT	41	29	4	1	3	3	5	0	1	0	1	1	17	105
WESTWOOD	39	36	5	1	1	5	5	0	1	1	0	1	18	112
WEYMOUTH	148	160	43	4	10	22	20	13	10	1	3	3	81	515
WHALEY	4	3	0	0	0	0	0	0	0	0	1	1	3	11
WHITMAN	30	30	10	1	5	4	5	2	3	0	1	1	16	107
WILBRAHAM	46	33	4	1	1	4	1	4	1	0	2	2	23	120
WILLIAMSBURG	11	6	2	0	0	0	0	2	0	0	0	0	3	24
WILLIAMSTOWN	28	16	5	2	2	7	4	0	0	1	0	0	13	78
WILMINGTON	35	24	6	1	0	8	5	3	1	0	2	2	17	102
WINCHENDON	31	18	4	5	1	2	5	2	0	0	3	3	13	84
WINCHESTER	57	58	14	3	1	7	4	6	1	1	1	1	34	187
WINDSOR	1	1	1	0	0	0	0	0	0	0	0	0	0	3
WINTHROP	62	61	13	0	5	10	6	8	0	0	0	0	43	208
WOBURN	100	81	23	5	2	18	17	8	1	0	2	2	61	318
WORCESTER	623	430	95	16	29	98	75	44	27	15	12	421	1885	
WORTHINGTON	1	1	0	0	0	0	1	0	0	0	0	0	4	7
WRENTHAM	24	19	5	2	3	8	2	1	0	0	3	3	20	87
YARMOUTH	91	100	31	3	4	13	13	6	6	6	3	3	67	343

STATE TOTAL	17049	14174	3328	558	719	2395	2151	1195	680	342	541	10672	53804
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TABLE C-14B  
SELECTED CAUSES OF DEATH BY COUNTY OF RESIDENCE  
1992

	HEART DISEASES (390-398, 402, 404-429)	MALIGNANT NEOPLASMS (140-209)	CEREBROVASCULAR DISEASE (430-438)	MOTOR VEHICLE ACCIDENTS(810-825)	OTHER ACCIDENTS (800-807,826-949)	INFLUENZA & PNEUMONIA (480-487)	CHRONIC OBSTRUCTIVE PULMONARY (490-496)	DIABETES MELLITUS (250)	CHRONIC LIVER DIS. & CIRRHOSIS (571)	ATHEROSCLEROSIS (440)	SUICIDE (950-959)	ALL OTHER CAUSES	TOTAL
BARNSTABLE	695	631	178	25	34	115	108	46	22	50	25	420	2349
BERKSHIRE	483	366	92	27	18	67	68	36	18	10	11	240	1436
BRISTOL	1709	1199	324	66	62	171	163	130	61	46	51	799	4781
DUKES	33	34	8	1	1	3	2	3	1	0	0	25	111
ESSEX	2045	1658	373	59	74	256	256	113	89	39	57	1070	6089
FRANKLIN	228	165	61	6	12	41	35	16	5	0	16	118	703
HAMPDEN	1461	1122	290	50	62	203	171	110	70	23	35	934	4531
HAMPSHIRE	378	304	76	17	14	49	41	21	18	7	13	197	1135
MIDDLESEX	3385	3052	707	109	130	503	455	252	129	72	110	2258	11162
NANTUCKET	16	21	6	1	1	3	5	1	1	0	1	10	66
NORFOLK	1694	1540	354	55	75	246	212	96	66	18	53	1051	5460
PLYMOUTH	1136	953	204	31	50	149	149	75	35	20	40	672	3514
SUFFOLK	1764	1459	300	36	92	287	222	149	78	21	55	1608	6071
WORCESTER	2022	1670	355	75	94	302	264	147	87	36	74	1270	6396
STATE TOTAL	17049	14174	3328	558	719	2395	2151	1195	680	342	541	10672	53804

TABLE C-15  
RESIDENT DEATHS BY CAUSE, SEX, AND RACE  
1992

ICD. LIST NUMBER	CAUSE OF DEATH	T O T A L S				W H I T E				B L A C K				O T H E R			
		TOT	MALE	FEM		TOT	MALE	FEM		TOT	MALE	FEM		TOT	MALE	FEM	
001-139	I. INFECTIVE AND PARASITIC DISEASES	1588	1009	579		1374	871	503		201	131	70		13	7	6	
001	001-009 I. INFECTIVE AND PARASITIC DISEASES	42	18	24		42	18	24		0	0	0		0	0	0	
004	004 SALMONELLA GASTROENTERITIS	3	0	3		3	0	3		0	0	0		0	0	0	
008	008 INTESTINAL INFEC DUE TO ESCHERICHIA COLI	35	17	18		35	17	18		0	0	0		0	0	0	
009	009 INFECTION ENTERITIS,GASTROENTERITIS	4	1	3		4	1	3		0	0	0		0	0	0	
010-018	TUBERCULOSIS	19	10	9		16	9	7		2	1	1		1	1	1	
011	011 TUBERCULOSIS OF LUNG , INFILTRATIVE	15	10	5		13	9	4		2	1	1		0	0	0	
012	012 TUBERCULOUS PLEURISY	1	0	1		1	0	0		0	0	0		1	0	1	
015	015 TUBERCULOSIS OF VERTEBRAL COLUMN	1	0	1		1	0	1		0	0	0		0	0	0	
017	017 TB OF SKIN AND SUBCUT CELLULAR TISSUES	1	0	1		1	0	1		0	0	0		0	0	0	
018	018 ACUTE MILIARY TUBERCULOSIS	1	0	1		1	0	1		0	0	0		0	0	0	
020-027	ZONOTIC BACTERIAL DISEASES	1	0	1		1	0	1		0	0	0		0	0	0	
027	027 LISTERIOSIS (BACTERIAL DISEASE )	633	271	362		591	253	338		35	16	19		7	2	5	
030-041	OTHER BACTERIAL DISEASES	10	6	4		8	6	2		2	0	2		0	0	0	
031	031 PULMONARY DISEASES DUE TO MYCOBACTERIA	1	1	0		0	0	0		1	1	0		0	0	0	
036	036 MENINGOCOCCAL MENINGITIS	617	262	355		578	245	333		32	15	17		7	2	5	
038	038 STREPTOCOCCAL SEPTICAEMIA	2	0	2		2	0	2		0	0	0		0	0	0	
040	040 GAS GANGRENE (BACTERIAL DISEASES)	3	2	1		3	2	1		0	0	0		0	0	0	
041	041 STREPTOCOCCUS BACTERIAL INFECTION	701	605	96		558	496	62		141	107	34		2	2	0	
042-044	AIDS, ARC AND ARV	670	581	89		536	479	57		133	101	32		1	1	0	
042	042 AIDS	6	4	2		3	2	1		3	2	1		1	1	0	
043	043 ARC CAUSING LYMPHADENOPATHY	25	20	5		19	15	4		5	4	1		1	1	0	
044	044 ARV,AAV,HIV CAUSING ACUTE INFECTIONS	15	6	9		14	6	8		1	0	1		0	0	0	
045-049	POLYMYELITIS AND OTHER ENTEROVIRUS	14	6	8		14	6	8		0	0	0		0	0	0	
046	046 DIS. OF CENTRAL NERVOUS SYSTEM	1	0	1		0	0	0		1	0	1		0	0	0	
047	047 KURU VIRUS INFECTION OF CNS	12	5	7		12	5	7		0	0	0		0	0	0	
050-057	VIRAL DISEASES ACCOMPANIED BY EXANTHEM	5	3	2		5	3	2		0	0	0		0	0	0	
052	052 CHICKENPOX	3	0	3		3	0	3		0	0	0		0	0	0	
053	053 HERPES ZOSTER WITH MENINGITIS	4	2	2		4	2	2		0	0	0		0	0	0	
054	054 HERPES SIMPLEX,ECZEMA HERPETICUM	60	37	23		52	33	19		6	2	4		2	2	0	
070-079	OTHER VIRAL DISEASES	46	32	14		40	28	12		4	2	2		2	2	0	
070	070 VIRAL HEPATITIS A WITH HEPATIC COMA	1	0	1		1	0	1		0	0	0		0	0	0	
075	075 INFECTIOUS MONONUCLEOSIS	6	3	3		5	3	2		1	0	1		0	0	0	
078	078 MOLLUSCUM CONTAGIOSUM OTHER VIRUSES	7	2	5		6	2	4		1	0	1		0	0	0	
079	079 ADENOVIRUS,UNSPECIFIED SITE	1	0	1		0	0	0		1	0	1		0	0	0	
080-088	RICKETTSIOSIS AND OTHER ARTHROPOD-BORNE DISEASES	1	0	1		0	0	0		1	0	1		0	0	0	
088	088 BARTONELLOSIS OTH ARTHROPOD-BORNE DIS	1	0	1		0	0	0		1	0	1		0	0	0	
090-099	SYPHILIS AND OTHER VENEREAL DISEASES	1	1	0		1	1	0		0	0	0		0	0	0	
094	094 TABES DORSALIS NEUROSYPHILIS	53	32	21		47	29	18		5	2	3		1	1	0	
110-118	MYCOSES	22	12	10		19	10	9		3	2	1		0	0	0	
112	112 CANDIDIASIS OF MOUTH	31	20	11		28	19	9		2	0	2		1	1	0	
117	117 RHINOSPORIDIOSIS MYCOSES	39	20	19		30	17	13		9	3	6		0	0	0	
130-136	OTHER INFECTIVE AND PARASITIC DISEASES	4	2	2		3	2	1		1	0	1		0	0	0	
130	130 TOXOPLASMOSIS	6	2	4		2	1	1		4	1	3		0	0	0	
135	135 SARCIDOSIS	29	16	13		25	14	11		4	2	2		0	0	0	
136	136 AINUM	11	4	7		10	4	6		1	0	1		0	0	0	
137-139	LATE EFFECTS OF INFECTIOUS AND PARASITIC DISEASES																

TABLE C-15

1992

ICD. LIST NUMBER	CAUSE OF DEATH I. INFECTIVE AND PARASITIC DISEASES (CONTINUED)	***** T O T A L S *****						***** W H I T E *****						***** B L A C K *****						***** O T H E R *****								
		T O T A L S			W H I T E			B L A C K			O T H E R																	
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
137	LATE EFFECTS RESPIRATORY OR UNSP TB	5	1	4	4	1	3	13833	6940	6893	483	249	234	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
138	LATE EFFECTS ACUTE POLIOMYELITIS	6	3	3	6	3	3	203	134	69	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
140-149	II. NEOPLASMS	14400	7237	7163	13833	6940	6893	13833	6940	6893	483	249	234	1	0	1	0	0	0	0	0	0	0	0	0	0	0	
140-149	MALIGNANT NEOPLASM OF LIP, ORAL CAVITY AND PHARYNX	211	142	69	203	134	69	203	134	69	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
140	MALIGNANT NEOPLASM OF UPPER LIP	4	4	0	4	4	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
141	MALIG NEOP BASE OF TONGUE	47	29	18	46	28	18	46	28	18	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
142	MALEG NEOP PAROTID GLAND	15	8	7	15	8	7	15	8	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
144	MALIG NEOP ANTERIOR PORTION FLOOR MOUTH	6	3	3	5	2	3	5	2	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
145	MALIG NEOP CHEEK MUCOSA	39	20	19	39	20	19	39	20	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
146	MALIG NEOP OF TONSIL	29	24	5	27	22	5	27	22	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
147	MALIG NEOP NASOPHARYNX SUPERIOR WALL	17	13	4	14	10	4	14	10	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
148	MALIG NEOP HYPOPHARYNX POSTCRICOID REG	14	13	1	14	13	1	14	13	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
149	MALIG NEOP PHARYNX, UNSPECIFIED	40	28	12	39	27	12	39	27	12	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
150-159	MALIGNANT NEOPLASM OF DIGESTIVE ORGANS AND PERITONEUM	3523	1828	1695	3373	1751	1622	3373	1751	1622	113	59	54	35	17	18	35	17	18	35	17	18	35	17	18	35	17	18
150	MALIG NEOP CERVICAL PT OESOPHAGUS	322	244	78	307	232	75	307	232	75	13	11	2	1	0	1	1	0	1	1	0	1	1	0	1	1	0	
151	MALIG NEOP OF STOMACH, CARDIA	374	184	190	354	178	176	354	178	176	17	6	11	3	0	3	17	6	11	3	0	3	17	6	11	3	0	
152	MALIG NEOP OF DUODENUM	24	13	11	22	12	10	22	12	10	2	1	1	0	0	0	2	1	1	0	0	0	2	1	1	0	0	
153	MALIG NEOP OF HEPATIC FLEXURE	1413	669	744	1366	645	721	1366	645	721	38	20	18	9	4	5	38	20	18	9	4	5	38	20	18	9	4	
154	MALIG NEOP OF RECTOSIGMOID JUNCTION	298	168	130	287	164	123	287	164	123	10	4	6	1	0	1	10	4	6	1	0	1	10	4	6	1	0	
155	MALIG NEOP OF LIVER PRIMARY	261	166	95	232	146	86	232	146	86	11	8	3	17	11	6	11	8	3	17	11	6	11	8	3	17	11	
156	MALIG NEOP OF GALL BLADDER	92	35	57	86	34	52	86	34	52	5	1	4	1	0	1	5	1	4	1	0	1	5	1	4	1	0	
157	MALIG NEOP HEAD OF PANCREAS	684	324	360	665	315	350	665	315	350	16	8	8	3	1	2	16	8	8	3	1	2	16	8	8	3	1	
158	MALIG NEOP OF RETROPERITONEUM	18	5	13	17	5	12	17	5	12	1	0	1	0	0	0	1	0	1	0	0	0	1	0	0	0	0	
159	MALIG NEOP INTESTINAL TRACT PT UNSPEC	37	20	17	37	20	17	37	20	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
160-165	MALIGNANT NEOPLASM OF RESPIRATORY AND INTRATHORACIC ORGANS	3796	2238	1558	3638	2133	1505	3638	2133	1505	136	89	47	22	16	6	136	89	47	22	16	6	136	89	47	22	16	
160	MALIG NEOP OF NASAL CAVITIES	14	8	6	13	7	6	13	7	6	1	1	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	
161	MALIG NEOP GLOTTIS LARYNX	119	87	32	112	81	31	112	81	31	5	4	1	2	2	0	5	4	1	2	2	0	5	4	1	2	0	
162	MALIG NEOP OF TRACHEA	3649	2137	1512	3500	2040	1460	3500	2040	1460	130	84	46	19	13	6	130	84	46	19	13	6	130	84	46	19	13	
163	MALIG NEOP OF PLEURA PARIETAL	6	3	3	6	3	3	6	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
164	MALIG NEOP OF THYMUS	8	3	5	7	2	5	7	2	5	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	1	0	
170-175	MALIGNANT NEOPLASM OF BONE, CONNECTIVE TISSUE, SKIN, AND BREAST	1639	218	1421	1594	217	1377	1594	217	1377	43	1	42	2	0	2	43	1	42	2	0	2	43	1	42	2	0	
170	MALIG NEOP BONES OF SKULL AND FACE	29	18	11	29	18	11	29	18	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
171	MALIG NEOP OF HEAD AND NECK	88	39	49	86	39	47	86	39	47	2	0	2	0	0	0	2	0	2	0	0	0	2	0	2	0	0	
172	MALIG MELANOMA OF LIP	207	112	95	207	112	95	207	112	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
173	MALIG NEOP OF SKIN OF LIP	53	36	17	51	35	16	51	35	16	2	1	1	0	0	0	2	1	1	0	0	0	2	1	1	0	0	
174	MAL NEOP NIPPLE & AREOLA OF FEM BREAST	1249	0	1249	1208	0	1208	1208	0	1208	39	0	39	2	0	2	39	0	39	2	0	2	39	0	39	2	0	
175	MAL NEOP OF MALE BREAST EXCL SKIN BREAST	13	13	0	13	13	0	13	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
179-189	MALIGNANT NEOPLASM OF GENITOURINARY ORGANS	2169	1254	915	2085	1204	881	2085	1204	881	76	45	31	8	5	3	76	45	31	8	5	3	76	45	31	8	5	
179	MAL NEOP UTERUS, PART UNSPECIFIED	71	0	71	70	0	70	70	0	70	1	0	1	0	0	0	1	0	1	0	0	0	1	0	1	0	0	
180	MALIG NEOP ENDOCERVIX CERVIX UTERI	93	0	93	84	0	84	84	0	84	7	0	7	2	0	2	7	0	7	2	0	2	7	0	7	2	0	
182	MAL NEOP CORPUS UTERI, EXCEPT ISTHMUS	91	0	91	87	0	87	87	0	87	4	0	4	0	0	0	4	0	4	0	0	0	4	0	4	0	0	

TABLE C-15 (CONTINUED)

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CO. LIST NUMBER	CAUSE OF DEATH II. NEOPLASMS (CONTINUED)	***** T O T A L S *****				***** W H I T E *****				***** B L A C K *****				***** O T H E R *****					
		T O T A L S		W H I T E		B L A C K		O T H E R		T O T A L S		W H I T E		B L A C K		O T H E R			
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
83	MALIG NEOPLASM OF OVARY	372	0	372	361	0	361	10	0	10	1	0	1	0	0	1	0	0	1
84	MALIG NEOP OF VAGINA	31	0	31	31	0	31	0	0	0	0	0	0	0	0	0	0	0	0
85	MALIG NEOPLASM OF PROSTATE	871	871	0	832	832	0	37	37	0	2	2	0	2	0	0	0	0	0
86	MALIG NEOP UNDESCENDED TESTIS	15	15	0	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0
87	MALIG NEOPLASM OF PREPUCE	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
88	MALIG NEOP OF BLADDER TRIGONE	329	208	121	318	201	117	8	4	4	3	3	0	3	3	0	0	0	0
89	MALIG NEOP KIDNEY EXCEPT PELVIS	295	159	136	286	155	131	9	4	5	0	0	0	0	0	0	0	0	0
90-199	MALIGNANT NEOPLASM OF OTHER AND UNSPECIFIED SITES	1481	769	712	1414	737	677	60	28	32	7	4	3	7	4	3	0	0	0
90	MAL NEOP EYEBALL EXCEPT CONJ,COR,RET,ETC	9	5	4	9	5	4	0	0	0	0	0	0	0	0	0	0	0	0
91	MALIG NEOP BRAIN CEREBRUM EXCP LOBES VEN	281	150	131	274	148	126	5	1	4	2	1	1	4	1	1	0	0	0
92	MALIGNANT NEOPLASM CRANIAL NERVES	11	6	5	11	6	5	0	0	0	0	0	0	0	0	0	0	0	0
93	MALIGNANT NEOPLASM OF THYROID GLAND	27	12	15	23	11	12	3	1	2	1	0	1	0	1	0	0	0	0
94	MALIGNANT NEOPLASM OF SUPRARENAL GLAND	15	8	7	13	7	6	2	1	1	0	0	0	0	0	0	0	0	0
95	MAL NEOP OF ILL-DEF SITES HEAD FACE NECK	99	46	53	96	44	52	2	1	1	1	1	1	1	0	0	0	0	0
99	MAL NEOP WITHOUT SPEC SITE DISSEMINATED	1039	542	497	988	516	472	48	24	24	3	2	1	1	1	0	0	0	0
00-208	NEOPLASMS OF LYMPHATIC AND HEMATOPOIETIC TISSUE	1355	679	676	1307	658	649	44	20	24	4	1	3	4	1	3	2	1	3
00	RETICULOSARCOMA	35	16	19	34	15	19	1	1	0	0	0	0	0	0	0	0	0	0
01	HOOGKIN'S PARAGRANULOMA	55	26	29	53	25	28	2	1	1	0	0	0	0	0	0	0	0	0
02	NOOULAR LYMPHOMA	503	256	247	493	251	242	9	5	4	1	0	0	0	0	0	0	0	0
03	MULTIPLE MYELOMA	248	106	142	230	102	128	16	3	13	2	1	1	1	0	1	1	1	1
04	ACUTE LYMPHOID LEUKAEMIA	141	74	67	136	71	65	5	3	2	0	0	0	0	0	0	0	0	0
05	ACUTE MYELOID LEUKEMIA	263	146	117	254	140	114	8	6	2	1	0	1	1	0	1	0	1	1
06	ACUTE MONOCYTIC LEUKAEMIA	4	0	4	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0
07	ACUTE ERYTHAEMIA AND ERYTHROLEUKAEMIA	2	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
08	ACUTE LEUK OF UNSPEC CELL TYPE	104	54	50	101	53	48	3	1	2	0	0	0	0	0	0	0	0	0
10-229	BENIGN NEOPLASMS	40	18	22	39	18	21	1	0	1	0	0	0	0	0	0	0	0	0
11	BENIGN NEOPLASM OF OESOPHAGUS	7	5	2	7	5	2	0	0	0	0	0	0	0	0	0	0	0	0
12	BEN NEO OF NASAL CAV MID EAR & ACCES SIN	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
15	BENIGN NEOP CONNECT TIS HEAD FACE & NECK	2	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
22	BENIGN NEOP OF TESTIS	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
23	BENIGN NEOP OF KIDNEY EXCEPT PELVIS	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
25	BENIGN NEOP OF BRAIN	22	7	15	21	7	14	1	0	1	0	0	0	0	0	0	0	0	0
27	BENIGN NEOP OF SUPRARENAL GLAND	2	1	1	2	1	1	1	0	1	0	0	0	0	0	0	0	0	0
28	HAENANGIOMA,ANY SITE	2	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
29	BENIGN NEOP LYMPH NODES	2	2	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0
35-238	NEOPLASMS OF UNCERTAIN BEHAVIOUR	44	20	24	43	20	23	1	0	1	0	0	0	0	0	0	0	0	0
35	NEOP OF UNCERT BEHAV OF MAJOR SALIVAR GL	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
37	NEOP UNCERT BEHAV PIT GLAND,CRANIOP DUCT	4	1	3	3	1	2	1	0	1	0	0	0	0	0	0	0	0	0
38	NEOP UNCERT BEHAV BONE & ARTICULAR CARTI	39	19	20	39	19	20	0	0	0	0	0	0	0	0	0	0	0	0
39-239	NEOPLASM OF UNSPECIFIED NATURE	142	71	71	137	68	69	5	3	2	0	0	0	0	0	0	0	0	0
39	NEOP UNSPEC NATURE OF DIGESTIVE SYSTEM	142	71	71	137	68	69	5	3	2	0	0	0	0	0	0	0	0	0

TABLE C-15

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CO. LIST NUMBER	CAUSE OF DEATH	T O T A L S			W H I T E			B L A C K			O T H E R		
		TOT 1680	MALE 720	FEM 960	TOT 1582	MALE 686	FEM 896	TOT 82	MALE 29	FEM 53	TOT 16	MALE 5	FEM 11
40 279	III. ENDOCRINE, NUTRITIONAL, AND METABOLIC DISEASES												
40-246	DISORDERS OF THYROID GLAND	35	8	27	35	8	27	0	0	0	0	0	0
40	GOITRE, SPECIFIED AS SIMPLE	1	0	1	1	0	1	0	0	0	0	0	0
42	TOXIC DIFFUSE GOITRE	4	0	4	4	0	4	0	0	0	0	0	0
44	POSTSURGICAL HYPOTHYROIDISM	29	7	22	29	7	22	0	0	0	0	0	0
46	DISORDERS OF THYROCALCITONIN SECRETION	1	1	0	1	1	0	0	0	0	0	0	0
50-259	DISEASES OF OTHER ENDOCRINE GLANDS	1215	545	670	1144	521	623	57	21	36	14	3	11
50	DIABETES MELLITUS WITHOUT MEN OF COMPLICATION	1195	536	659	1125	512	613	56	21	35	14	3	11
51	HYPOLYCAEMIC COMA	5	3	2	5	3	2	0	0	0	0	0	0
52	HYPERPARATHYROIDISM	1	0	1	1	0	1	0	0	0	0	0	0
53	ACROMEGALY AND GIGANTISM DISORDERS	8	5	3	7	5	2	1	0	1	0	0	0
55	CUSHING'S SYNDROME	5	1	4	5	1	4	0	0	0	0	0	0
59	DELAY IN SEXUAL DEVELOPMENT & PUBERTY NEC	1	0	1	1	0	1	0	0	0	0	0	0
60-269	NUTRITIONAL DEFICIENCIES	61	17	44	57	17	40	4	0	4	0	0	0
60	KWASHIORKOR	2	1	1	2	1	1	0	0	0	0	0	0
61	NUTRITIONAL MARASMUS	5	1	4	4	1	3	1	0	1	0	0	0
63	MALNUTRITION OF MODERATE DEGREE	51	14	37	48	14	34	3	0	3	0	0	0
69	DEFICIENCY OF VITAMIN K	3	1	2	3	1	2	0	0	0	0	0	0
70-279	OTHER METABOLIC AND IMMUNITY DISORDERS	369	150	219	346	140	206	21	8	13	2	2	0
70	DISTURBANCES OF AMINO-ACID TRANSPORT	2	1	1	2	1	1	0	0	0	0	0	0
71	GLYCOGENOSIS	1	1	0	1	1	0	0	0	0	0	0	0
72	PURE HYPERCHOLESTEROLAEMIA	29	12	17	29	12	17	0	0	0	0	0	0
73	POLYCLONAL HYPERGAMMAGLOBULINAEMIA	25	9	16	24	8	16	1	1	0	0	0	0
74	GOUTY ARTHROPATHY	2	1	1	2	1	1	0	0	0	0	0	0
75	DISORDERS OF IRON METABOLISM	4	1	3	4	1	3	0	0	0	0	0	0
76	HYPEROSMOLALITY AND/OR HYPERNATRAEMIA	190	55	135	184	52	132	5	2	3	1	1	0
77	CYSTIC FIBROSIS	50	28	22	48	27	21	1	0	1	1	1	0
78	OBESITY	34	19	15	29	18	11	5	1	4	0	0	0
79	DEFICIENCY OF HUMORAL IMMUNITY	32	23	9	23	19	4	9	4	5	0	0	0
80 289	IV. DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS	252	121	131	236	114	122	14	7	7	2	0	2
80	IRON DEFICIENCY ANAEMIAS	2	0	2	2	0	2	0	0	0	0	0	0
81	PERNICIOUS ANAEMIA	11	1	10	11	1	10	0	0	0	0	0	0
82	HEREDITARY SPHEROCYTOSIS	15	5	10	9	3	6	6	2	4	0	0	0
83	AUTOIMMUNE HAEMOLYTIC ANAEMIAS	7	2	5	7	2	5	0	0	0	0	0	0
84	CONSTITUTIONAL APLASTIC ANAEMIA	34	19	15	32	18	14	2	1	1	0	0	0
85	SIDERBLASTIC ANEMIA	47	20	27	45	19	26	2	1	1	0	0	0
86	CONGENITAL FACTOR VIII DISORDER	40	23	17	38	21	17	2	2	0	0	0	0
87	ALLERGIC PURPURA	20	9	11	18	9	9	1	0	1	1	0	1
88	AGRANULOCYTOSIS DISEASE WHITE BLOOD CELL	11	4	7	11	4	7	0	0	0	0	0	0
89	SECONDARY POLYCYTHAEMIA	65	38	27	63	37	26	1	1	0	1	0	1

TABLE C-15 (CONTINUED)

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ICD. LIST NUMBER	CAUSE OF DEATH	T O T A L S			W H I T E			B L A C K			O T H E R		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
290-319	V. MENTAL DISORDERS	792	316	476	768	306	462	22	9	13	2	1	1
290-294	ORGANIC PSYCHOTIC CONDITIONS	332	121	211	326	118	208	6	3	3	0	0	0
290	SENILE DEMENTIA, SIMPLE TYPE	324	116	208	318	113	205	6	3	3	0	0	0
291	DELIRIUM TREMENS	5	5	0	5	5	0	0	0	0	0	0	0
292	DRUG WITHDRAWAL SYNDROME	1	0	1	1	0	1	0	0	0	0	0	0
294	KORSAKOV'S PSYCHOSIS, SYNDROME (NONALCOHO)	2	0	2	2	0	2	0	0	0	0	0	0
295-299	OTHER PSYCHOSES	244	70	174	232	66	166	10	3	7	2	1	1
295	SIMPLE TYPE SCHIZOPHRENIC PSYCHOSES	14	5	9	14	5	9	0	0	0	0	0	0
296	MANIC-DEPRESSIVE PSYCHOSIS, MANIC TYPE	5	2	3	5	2	3	0	0	0	0	0	0
298	DEPRESSIVE TYPE NONORGANIC PSYCHOSES	225	63	162	213	59	154	10	3	7	2	1	1
300-316	NEUROSES, PERSONALITY DISORDERS, AND OTHER NONPSYCHOTIC DISORDERS	211	123	88	205	120	85	6	3	3	0	0	0
300	ANXIETY STATES	2	1	1	2	1	1	0	0	0	0	0	0
303	ALCOHOL DEPENDENCE SYNDROME	86	68	18	81	65	16	5	3	2	0	0	0
304	MORPHINE TYPE DRUG DEPENDENCE	2	2	0	2	2	0	0	0	0	0	0	0
305	ALCOHOL NONDEPENDENT ABUSE OF DRUGS	35	29	6	35	29	6	0	0	0	0	0	0
307	STAMMERING AND STUTTERING	4	0	4	4	0	4	0	0	0	0	0	0
310	FRONTAL LOBE SYNDROME	71	20	51	70	20	50	1	0	1	0	0	0
311	DEPRESSIVE DISORDER NEC	11	3	8	11	3	8	0	0	0	0	0	0
317-319	MENTAL RETARDATION	5	2	3	5	2	3	0	0	0	0	0	0
318	MODERATE MENTAL RETARDATION	1	0	1	1	0	1	0	0	0	0	0	0
319	UNSPECIFIED MENTAL RETARDATION	4	2	2	4	2	2	0	0	0	0	0	0
320-389	VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	1249	527	722	1204	514	690	40	13	27	5	0	5
320-326	INFLAMMATORY DISEASES OF THE CENTRAL NERVOUS SYSTEM	33	15	18	31	14	17	2	1	1	0	0	0
320	HAEMOPHILUS MENINGITIS	9	5	4	8	4	4	1	1	0	0	0	0
322	NONPYOGENIC MENINGITIS	9	2	7	8	2	6	1	0	1	0	0	0
323	OTHER ENCEPHALITIS DUE TO INFECTION	8	4	4	8	4	4	0	0	0	0	0	0
324	INTERCRANIAL ABSCESS	7	4	3	7	4	3	0	0	0	0	0	0
330-337	HEREDITARY AND DEGENERATIVE DISEASES OF NERVOUS SYSTEM	913	358	555	894	355	539	17	3	14	2	0	2
330	LEUCODYSTROPHY	3	1	2	3	1	2	0	0	0	0	0	0
331	ALZHEIMERS DISEASE	529	166	363	518	165	353	9	1	8	2	0	2
332	PARALYSIS AGITANS	227	117	110	224	117	107	3	0	3	0	0	0
333	OTH DEGEN DISEASES OF THE BASAL GANGLIA	25	13	12	25	13	12	0	0	0	0	0	0
334	FRIEDREICH'S ATAXIA	12	4	8	11	4	7	1	0	1	0	0	0
335	MERDING-HOFFMANN DISEASE	110	56	54	106	54	52	4	2	2	0	0	0
336	SYRINGOMYELIA AND SYRINGOBULBIA	6	1	5	6	1	5	0	0	0	0	0	0
337	IDIOPATH PERIPHERAL AUTONOMIC NEUROPATHY	1	0	1	1	0	1	0	0	0	0	0	0
340-349	OTHER DISORDERS OF THE CENTRAL NERVOUS SYSTEM	241	115	126	220	108	112	18	7	11	3	0	3
340	MULTIPLE SCLEROSIS	56	15	41	52	15	37	4	0	4	0	0	0
341	NEUROMYELITIS OPTICA	2	0	2	2	0	2	0	0	0	0	0	0
342	FLACCID HEMIPLEGIA	8	1	7	8	1	7	0	0	0	0	0	0
343	DIPLEGIC	16	9	7	15	9	6	1	0	1	0	0	0
344	QUADRIPLEGIA	19	12	7	17	11	6	2	1	1	0	0	0
345	GENERALIZED NONCONVULSIVE EPILEPSY	22	8	14	20	6	14	2	2	0	0	0	0
348	CEREBRAL CYSTS	111	68	43	99	64	35	9	4	5	3	0	3

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ICD. LIST NUMBER	CAUSE OF DEATH VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS (CONTINUED)	T O T A L S				W H I T E				B L A C K				O T H E R			
		TOT		FEM		TOT		FEM		TOT		FEM		TOT		FEM	
		MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM	MALE	FEM		
349	REACTION TO SPINAL OR LUMBAR PUNCTURE	7	2	5		7	2	5		0	0	0	0	0	0	0	
350-359	DISORDERS OF PERIPHERAL NERVOUS SYSTEM	60	37	23		58	36	22		2	1	1		0	0	0	
352	DISORDERS OF OLFACTORY 1ST NERVE	1	1	0		1	1	0		0	0	0		0	0	0	
355	LESION OF SCIATIC NERVE	2	1	1		2	1	1		0	0	0		0	0	0	
356	HEREDITARY PERIPHEAL NEUROPATHY	17	10	7		16	9	7		1	1	0		0	0	0	
357	ACUTE INFECTIVE POLYNEURITIS	3	3	0		3	3	0		0	0	0		0	0	0	
358	MYASTHENIA GRAVIS	13	5	8		12	5	7		1	0	1		0	0	0	
359	CONGENITAL HEREDITARY MUSCULAR DYSTROPHY	24	17	7		24	17	7		0	0	0		0	0	0	
360-379	DISORDERS OF EYE AND ADNEXA	1	1	0		1	1	0		0	0	0		0	0	0	
369	BLINDNESS BOTH EYES	1	1	0		1	1	0		0	0	0		0	0	0	
380-389	DISEASES OF THE EAR AND MASTIOD PROCESS	1	1	0		0	0	0		1	1	0		0	0	0	
383	ACUTE MASTOIDITIS	1	1	0		0	0	0		1	1	0		0	0	0	
390	VII. DISEASES OF THE CIRCULATORY SYSTEM	21754	9933	11821		21086	9577	11509		570	296	274		98	60	38	
393-398	CHRONIC RHEUMATIC HEART DISEASE	144	34	110		137	33	104		5	0	5		2	1	1	
394	MITRAL STENOSIS	70	13	57		68	13	55		2	0	2		0	0	0	
395	RHEUMATIC AORTIC STENOSIS	5	2	3		4	2	2		1	0	1		0	0	0	
396	DISEASES OF MITRAL AND AORTIC VALVES	12	3	9		12	3	9		0	0	0		0	0	0	
397	DISEASES OF TRICUSPID VALVE	12	4	8		11	3	8		0	0	0		1	1	0	
398	RHEUMATIC MYOCARDITIS	45	12	33		42	12	30		2	0	2		1	0	1	
401-405	HYPERTENSIVE DISEASE	593	228	365		545	200	345		39	23	16		9	5	4	
401	ESSENTIAL HYPERTENSION, MALIGNANT	143	53	90		132	48	84		7	3	4		4	2	2	
402	HYPERTENSIVE HEART DISEASE, MALIGNANT	320	126	194		294	110	184		22	14	8		4	2	2	
403	HYPERTENSIVE RENAL DISEASE, MALIGNANT	95	33	62		88	29	59		7	4	3		0	0	0	
404	HYPER HEART AND RENAL, MALIGNANT	35	16	19		31	13	18		3	2	1		1	1	0	
410-414	ISCHEMIC HEART DISEASE	11285	5590	5695		11024	5460	5564		223	107	116		38	23	15	
410	ACUTE MYOCARDIAL INFARCTION	5304	2697	2607		5168	2632	2536		119	56	63		17	9	8	
411	OTH ACUTE & SUBACUTE FORMS OF ISCH HT DX	9	5	4		9	5	4		0	0	0		0	0	0	
412	OLD MYOCARDIAL INFARCTION	11	6	5		11	6	5		0	0	0		0	0	0	
413	ANGINA PECTORIS	39	21	18		38	20	18		1	1	0		0	0	0	
414	CORONARY ATHEROSCLEROSIS	5922	2861	3061		5798	2797	3001		103	50	53		21	14	7	
415-417	DISEASES OF PULMONARY CIRCULATION	267	100	167		250	92	158		15	7	8		2	1	1	
415	ACUTE COR PULMONALE	198	75	123		188	72	116		9	2	7		1	1	0	
416	PRIMARY PULMONARY HYPERTENSION	66	23	43		60	19	41		5	4	1		1	0	1	
417	ARTERIOVENOUS FISTULA OF PULMONARY VESS	3	2	1		2	1	1		1	1	0		0	0	0	
420-429	OTHER FORMS OF HEART DISEASE	4998	2321	2677		4801	2190	2611		175	115	60		22	16	6	
420	PERICARDITIS IN DX CLASSIFIED ELSEWHERE	1	0	1		1	0	1		0	0	0		0	0	0	
421	ACUTE & SUBACUTE BACTERIAL ENDOCARDITIS	20	13	7		19	12	7		1	1	0		0	0	0	
422	ACUTE MYOCARDITIS IN OTHER DISEASES	8	5	3		6	3	3		2	2	0		0	0	0	
423	HAEMOPERICARDIUM	18	10	8		16	9	7		1	0	1		1	1	0	
424	MITRAL VALVE DISORDERS	351	132	219		344	128	216		7	4	3		0	0	0	
425	ENDOMYOCARDIAL FIBROSIS	538	353	185		494	321	173		44	32	12		0	0	0	
426	ATRIOVENTRICULAR BLOCK COMPLETE	38	11	27		38	11	27		0	0	0		0	0	0	
427	PAROXYSMAL SUPRAVENTRICULAR TACHYCARDIA	1505	684	821		1454	653	801		45	27	18		6	4	2	
428	CONGESTIVE HEART FAILURE	1296	475	821		1264	451	813		29	21	8		3	3	0	
429	MYOCARDITIS UNSPECIFIED	1223	638	585		1165	602	563		46	28	18		12	8	4	



TABLE C-15 (CONTINUED)

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ICD. LIST NUMBER	CAUSE OF DEATH VII. DISEASES OF THE CIRCULATORY SYSTEM (CONTINUED)	***** T O T A L S *****						***** W H I T E *****						***** B L A C K *****						***** O T H E R *****					
		T O T A L S		W H I T E		B L A C K		O T H E R		T O T A L S		W H I T E		B L A C K		O T H E R		T O T A L S		W H I T E		B L A C K		O T H E R	
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
430-438	CEREBROVASCULAR DISEASE	3328	1120	2208	3212	1073	2139	36	60	9	20	11	9	96	36	60	20	11	9	20	11	9	20	11	9
430	SUBARACHOID HEMORRHAGE	146	42	104	139	40	99	5	4	1	2	1	1	5	1	4	2	1	1	2	1	1	2	1	1
431	INTRACEREBRAL HAEMORRHAGE	415	169	246	394	159	235	12	8	6	9	6	3	12	4	8	9	6	3	12	4	8	9	6	3
432	NONTRAUMATIC EXTRADURAL HAEMORRHAGE	95	41	54	86	38	48	8	2	6	1	1	0	8	2	6	1	1	0	8	2	6	1	1	0
433	BASILAR ARTERY	26	11	15	26	11	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
434	CEREBRAL THROMBOSIS	410	120	290	406	118	288	3	1	2	1	2	1	3	1	2	1	1	1	3	1	2	1	1	1
435	TRANSIENT CEREBRAL ISCHAEMIA	6	2	4	5	2	3	1	0	1	0	1	0	1	0	1	0	0	0	1	0	1	0	0	0
436	ACUTE BUT ILL-DEF CEREBROVASCULAR DX	1700	563	1137	1648	543	1105	46	18	28	6	2	4	46	18	28	6	2	4	46	18	28	6	2	4
437	CEREBRAL ATHEROSCLEROSIS	231	67	164	222	63	159	9	4	5	0	0	0	9	4	5	0	0	0	9	4	5	0	0	0
438	LATE EFFECTS OF CEREBROVASCULAR DISEASE	299	105	194	286	99	187	12	6	6	1	0	1	12	6	6	1	0	1	12	6	6	1	0	1
440-448	DISEASES OF ARTERIES, ARTERIOLES, AND CAPILLARIES	1042	500	542	1025	492	533	13	6	7	4	2	2	13	6	7	4	2	2	13	6	7	4	2	2
440	OF AORTA	342	125	217	338	124	214	2	0	2	2	1	1	2	0	2	2	1	1	2	1	1	2	1	1
441	DISSECTING ANEURYSM	457	274	183	449	270	179	6	3	3	2	1	1	6	3	3	2	1	1	6	3	3	2	1	1
442	OF ARTERY OF UPPER EXTREMITY	10	5	5	8	4	4	2	1	1	0	0	0	2	1	1	0	0	0	2	1	1	0	0	0
443	RAYNAUD'S SYNDROME	151	65	86	149	63	86	2	2	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0
444	OF ABDOMINAL AORTA	36	13	23	36	13	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
446	POLYARTERITIS NODOSA	23	7	16	23	7	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
447	ARTERIOVENOUS FISTULA ACQUIRED	22	10	12	21	10	11	1	0	1	0	1	0	1	0	1	0	0	0	1	0	1	0	0	0
448	HEREDITARY HAEMORRHAGIC TELANGIECTASIA	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
451-459	DISEASES OF VEINS AND LYMPHATICS, AND OTHER DIS. OF CIRCULATORY SYS.	97	40	57	92	37	55	4	2	2	1	1	0	4	2	2	1	1	0	4	2	2	1	1	0
451	SUPERFICIAL VESSELS OF LOWER EXTREMITIES	16	3	13	16	3	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
452	PORTAL VEIN THROMBOSIS	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
453	BUDD-CHIARI SYNDROME	6	1	5	6	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
454	VARICOSE VEINS WITH ULCER	5	3	2	5	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
455	INTERNAL HAEMORRHOIDS W/O COMPLICATIONS	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
456	OESOPHAGEAL VARICIS WITH BLEEDING	7	7	0	6	6	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0
457	POSTMASTECTOMY LYMPHOEDEMA SYNDROME	3	2	1	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
458	ORTHOSTATIC HYPOTENSION	32	14	18	31	14	17	1	0	1	1	0	1	1	0	1	1	0	0	1	0	1	0	0	0
459	HAEMORRHAGE UNSPECIFIED	26	8	18	23	6	17	2	1	1	1	1	1	2	1	1	1	1	1	2	1	1	1	1	0
460-466	VIII. DISEASES OF THE RESPIRATORY SYSTEM	5293	2482	2811	5147	2398	2749	118	65	53	28	19	9	118	65	53	28	19	9	118	65	53	28	19	9
460-466	ACUTE RESPIRATORY INFECTIONS	14	3	11	14	3	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
462	ACUTE PHARYNGITIS	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
465	ACUTE LARYNGOPHARYNGITIS	3	1	2	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
466	ACUTE BRONCHITIS	10	2	8	10	2	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
470-478	OTHER DISEASES UPPER RESPIRATORY TRACT	4	2	2	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
473	MAXILLARY	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
478	HYPERTROPHY OF NASAL TURBINATES	3	1	2	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
480-487	PNEUMONIA AND INFLUENZA	2395	1000	1395	2324	959	1365	57	31	26	14	10	4	57	31	26	14	10	4	57	31	26	14	10	4
480	PNEUMONIA DUE TO ADENOVIRUS	6	2	4	6	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
481	PNEUMOCOCCAL PNEUMONIA	59	31	28	57	29	28	2	2	0	2	2	0	2	2	0	2	2	0	2	2	0	2	2	0
482	PNEUMONIA DUE TO KLEBSIELLA PNEUMONIAE	63	31	32	61	30	31	1	0	1	1	1	0	1	0	1	1	1	0	1	1	0	1	1	0
483	PNEUMONIA DUE TO OTH SPECIFIED ORGANISM	3	3	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
485	BRONCHOPNEUMONIA ORGANISM UNSPECIFIED	156	54	102	153	52	101	3	2	1	3	2	1	3	2	1	3	2	1	3	2	1	3	2	1
486	PNEUMONIA ORGANISM UNSPECIFIED	2075	868	1207	2011	832	1179	51	27	24	13	9	4	51	27	24	13	9	4	51	27	24	13	9	4

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ICD. LIST NUMBER	CAUSE OF DEATH VIII. DISEASES OF THE RESPIRATORY SYSTEM (CONTINUED)	***** T O T A L S *****				***** W H I T E *****				***** B L A C K *****				***** O T H E R *****			
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT
487	INFLUENZA WITH PNEUMONIA	33	11	22	33	11	22	33	11	22	33	11	22	33	11	22	33
490-496	CHRONIC OBSTRUCTIVE PULMONARY DISEASE AND ALLIED CONDITIONS	2151	1083	1068	2103	1055	1048	2103	1055	1048	2103	1055	1048	2103	1055	1048	2103
490	BRONCHITIS NOT SPEC AS ACUTE OR CHRONIC	22	9	13	22	9	13	22	9	13	22	9	13	22	9	13	22
491	SIMPLE CHRONIC BRONCHITIS	39	14	25	39	14	25	39	14	25	39	14	25	39	14	25	39
492	EMPHYSEMA	347	189	158	343	186	157	343	186	157	343	186	157	343	186	157	343
493	EXTRINSIC ASTHMA	116	33	83	109	32	77	109	32	77	109	32	77	109	32	77	109
494	BRONCHIECTASIS	28	8	20	25	6	19	25	6	19	25	6	19	25	6	19	25
496	CHRONIC AIRWAYS OBSTRUCTION NEC	1599	830	769	1565	808	757	1565	808	757	1565	808	757	1565	808	757	1565
500-508	PNEUMONIOSES AND OTHER LUNG DISEASES DUE TO EXTERNAL AGENTS	268	147	121	261	142	119	261	142	119	261	142	119	261	142	119	261
500	COALWORKERS' PNEUMOCONIOSIS	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1
501	ASBESTOSIS	15	13	2	14	12	2	14	12	2	14	12	2	14	12	2	14
503	PNEUMOCONIOSIS DUE TO OTH INORGANIC DUST	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1
504	PNEUMOPATHY DUE TO INHAL OF OTH DUST	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1
507	PNEUMONITIS DUE TO INHAL FOOD OR VOMIT	248	133	115	242	129	113	242	129	113	242	129	113	242	129	113	242
508	ACUTE PULMONARY MANIFEST DUE TO RADIATIO	2	0	2	2	0	2	2	0	2	2	0	2	2	0	2	2
510-519	OTHER DISEASES OF RESPIRATORY SYSTEM	461	247	214	442	238	204	442	238	204	442	238	204	442	238	204	442
510	EMPHYEMA WITH FISTULA	12	11	1	11	10	1	11	10	1	11	10	1	11	10	1	11
511	PLEURISY WITHOUT MENT EFFUSION OR CUR TB	22	12	10	21	12	9	21	12	9	21	12	9	21	12	9	21
512	PNEUMOTHORAX	7	7	0	6	6	0	6	6	0	6	6	0	6	6	0	6
513	ABSCESS OF LUNG	8	6	2	8	6	2	8	6	2	8	6	2	8	6	2	8
514	PULMONARY CONGESTION AND HYPOSTASIS	27	16	11	27	16	11	27	16	11	27	16	11	27	16	11	27
515	POSTINFLAMMATORY PULMONARY FIBROSIS	158	79	79	152	75	77	152	75	77	152	75	77	152	75	77	152
516	PULMONARY ALVEOLAR PROTEINOSIS	24	19	5	20	17	3	20	17	3	20	17	3	20	17	3	20
518	PULMONARY COLLAPSE-DISEASES OF LUNG	176	86	90	172	85	87	172	85	87	172	85	87	172	85	87	172
519	TRACHEOSTOMY MALFUNCTION	27	11	16	25	11	14	25	11	14	25	11	14	25	11	14	25
520-529	IX. DISEASES OF THE DIGESTIVE SYSTEM	2160	1052	1108	2068	1001	1067	2068	1001	1067	2068	1001	1067	2068	1001	1067	2068
530-537	DISEASES OF ESOPHAGUS, STOMACH, AND DUODENUM	184	80	104	177	76	101	177	76	101	177	76	101	177	76	101	177
530	ACHALASIA AND CARDIOSPASM DIS OESOPHAGUS	50	27	23	49	26	23	49	26	23	49	26	23	49	26	23	49
531	ACUTE GASTRIC ULCER WITH HEMORRHAGE	29	7	22	29	7	22	29	7	22	29	7	22	29	7	22	29
532	ACUTE DUO ULCER WITH HEMORRHAGE	42	20	22	42	20	22	42	20	22	42	20	22	42	20	22	42
533	ACUTE PEPTIC ULCER WITH HEMORRHAGE	43	19	24	41	19	22	41	19	22	41	19	22	41	19	22	41
534	ACUTE GASTROJEJUNAL ULCER W HEM	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1
535	ACUTE GASTRITIS	13	4	9	12	3	9	12	3	9	12	3	9	12	3	9	12
536	ACHLORHIDRIA	3	2	1	2	1	1	2	1	1	2	1	1	2	1	1	2
537	ADULT HYPERTROPHIC PYLORIC STENOSIS	3	1	2	1	0	1	1	0	1	1	0	1	1	0	1	1
540-543	APPENDICITIS	8	4	4	7	3	4	7	3	4	7	3	4	7	3	4	7
540	APPENDICITIS WITH GEN PERITONITIS	7	3	4	6	2	4	6	2	4	6	2	4	6	2	4	6
541	APPENDICITIS,UNQUALIFIED	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1
550-553	HERNIA OF ABDOMINAL CAVITY	43	10	33	43	10	33	43	10	33	43	10	33	43	10	33	43
550	INGUINAL HERNIA,WITH GANGRENE	10	4	6	10	4	6	10	4	6	10	4	6	10	4	6	10
551	FEMORAL,WITH GANGRENE	5	0	5	5	0	5	5	0	5	5	0	5	5	0	5	5
552	FEMORAL,WITH OBSTRUCTION	11	2	9	11	2	9	11	2	9	11	2	9	11	2	9	11
553	FEMORAL WHOUT MEN OF GANG OR OBSTRUCTION	17	4	13	17	4	13	17	4	13	17	4	13	17	4	13	17

TABLE C-15 (CONTINUED)

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ICD. LIST NUMBER	CAUSE OF DEATH IX. DISEASES OF THE DIGESTIVE SYSTEM (CONTINUED)	T O T A L S				W H I T E				B L A C K				O T H E R			
		TOT	MALE	FEM		TOT	MALE	FEM		TOT	MALE	FEM		TOT	MALE	FEM	
555-558	NONINFECTIVE ENTERITIS AND COLITIS	238	79	159		233	79	154		5	0	5		0	0	0	
555	REGIONAL ENTERITIS, SMALL INTESTINE	16	7	9		16	7	9		0	0	0		0	0	0	
556	IDIOPATHIC PROCTOCOLITIS	9	3	6		9	3	6		0	0	0		0	0	0	
557	ACUTE VASCULAR INSUFFICIENCY OF INTESTIN	181	60	121		177	60	117		4	0	4		0	0	0	
558	OTH NONINFECTIVE GASTROENTERITIS, COLITIS	32	9	23		31	9	22		1	0	1		0	0	0	
560-569	OTHER DISEASES OF INTESTINE AND PERITONEUM	370	126	244		357	122	235		11	3	8		2	1	1	
560	INTUSSUSCEPTION	146	55	91		139	52	87		6	2	4		1	1	0	
562	DIVERTICULA SMALL INTESTINE	99	23	76		98	22	76		1	1	0		0	0	0	
564	CONSTIPATION	11	6	5		10	6	4		1	0	1		0	0	0	
566	ABSCESS OF ANAL AND RECTAL REGIONS	1	1	0		1	1	0		0	0	0		0	0	0	
567	PERITONITIS INFECTIONOUS DIS CLASSIFIED EL	52	20	32		51	20	31		0	0	0		1	0	1	
568	PERITONEAL ADHESIONS	7	3	4		7	3	4		0	0	0		0	0	0	
569	ANAL AND RECTAL POLYP	54	18	36		51	18	33		3	0	3		0	0	0	
570-579	OTHER DISEASES OF DIGESTIVE SYSTEM	1317	753	564		1251	711	540		61	40	21		5	2	3	
570	ACUTE, SUBACUTE NECROSIS OF LIVER	12	6	6		10	5	5		2	1	1		0	0	0	
571	ALCOHOLIC FATTY LIVER	680	434	246		658	421	237		19	11	8		3	2	1	
572	ABSCESS OF LIVER	160	104	56		145	91	54		14	13	1		1	0	1	
573	CHRONIC PASSIVE CONGESTION OF LIVER	59	40	19		53	37	16		6	3	3		0	0	0	
574	CALCULUS GALLBLADDER WH ACUTE CHOLECYSTII	23	4	19		23	4	19		0	0	0		0	0	0	
575	ACUTE CHOLECYSTITIS	40	11	29		38	10	28		2	1	1		0	0	0	
576	POSTCHOLECYSTECTOMY SYNDROME	27	15	12		26	14	12		1	1	0		0	0	0	
577	ACUTE PANCREATITIS	67	33	34		60	29	31		6	4	2		1	0	1	
578	HAEMATEMESIS	247	106	141		236	100	136		11	6	5		0	0	0	
579	COELIAC DISEASE	2	0	2		2	0	2		0	0	0		0	0	0	
580-589	DISEASES OF THE GENITOURINARY SYSTEM	1167	501	666		1098	463	635		54	29	25		15	9	6	
580-589	NEPHRITIS AND NEPHROSIS	731	352	379		689	328	361		29	16	13		13	8	5	
580	WH LESION OF PROLIFERATIVE GLOMERULONEPH	4	1	3		4	1	3		0	0	0		0	0	0	
581	WH LESION OF PROLIFERATIVE GLOMERULONEPH	6	2	4		5	1	4		0	0	0		1	1	0	
582	WH LESION OF PROLIFERATIVE GLOMERULONEPH	23	12	11		18	8	10		5	4	1		0	0	0	
583	WH LESION OF PROLIFERATIVE GLOMERULONEPH	6	3	3		6	3	3		0	0	0		0	0	0	
584	WH LESION OF TUBULAR NECROSIS	107	51	56		104	48	56		1	1	0		2	2	0	
585	CHRONIC RENAL FAILURE	188	99	89		175	91	84		10	6	4		3	2	1	
586	RENAL FAILURE, UNSPECIFIED	394	182	212		375	174	201		12	5	7		7	3	4	
587	RENAL SCLEROSIS UNSPECIFIED	2	2	0		2	2	0		0	0	0		0	0	0	
588	RENAL OSTEODYSSTROPHY	1	0	1		0	0	0		1	0	1		0	0	0	
590-599	OTHER DISEASES OF URINARY SYSTEM	416	135	281		390	122	268		24	12	12		2	1	1	
590	CHRONIC PYELONEPHRITIS & CHRONIC PYONEPH	19	3	16		18	2	16		1	1	0		0	0	0	
591	HYDRONEPHROSIS	4	2	2		4	2	2		0	0	0		0	0	0	
592	CALCULUS OF KIDNEY	8	1	7		8	1	7		0	0	0		0	0	0	
593	NEPHROPTOSIS	76	34	42		60	25	35		15	9	6		1	0	1	
594	CALCULUS IN DIVERTICULUM OF BLADDER	1	1	0		1	1	0		0	0	0		0	0	0	
595	ACUTE CYSTITIS	1	1	0		1	1	0		0	0	0		0	0	0	
596	BLADDER-NECK OBSTRUCTION	4	3	1		3	2	1		1	1	0		0	0	0	
599	URINARY TRACT INFECTION, SITE NOT SPEC	303	90	213		295	88	207		7	1	6		1	1	0	
600-608	DISEASES OF MALE GENITAL ORGANS	14	14	0		13	13	0		1	1	0		0	0	0	

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ICD. LIST NUMBER	CAUSE OF DEATH X. DISEASES OF THE GENITOURINARY SYSTEM (CONTINUED)	T O T A L S			W H I T E			B L A C K			O T H E R		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
		7	7	0	7	7	0	0	0	0	0	0	0
600	HYPERPLASIA OF PROSTATE	4	4	0	4	4	0	0	0	0	0	0	0
602	CALCULUS OF PROSTATE	1	1	0	0	0	0	1	1	0	0	0	0
607	LEUKOPLAKIA OF PENIS	2	2	0	2	2	0	0	0	0	0	0	0
608	SEMINAL VESICULITIS	1	0	1	1	0	1	0	0	0	0	0	0
610-611	DISORDERS OF BREAST	1	0	1	1	0	1	0	0	0	0	0	0
611	INFLAMMATORY DISEASE OF BREAST	1	0	1	1	0	1	0	0	0	0	0	0
614-616	INFLAMMATORY DISEASE OF FEMALE PELVIC ORGANS	2	0	2	2	0	2	0	0	0	0	0	0
614	ACUTE SALPINGITIS AND OOPHORITIS	2	0	2	2	0	2	0	0	0	0	0	0
617-629	OTHER DISORDERS OF FEMALE GENITAL TRACT	3	0	3	3	0	3	0	0	0	0	0	0
618	PROLAPSE VAGINAL WALLS W/O UTERINE PROLA	1	0	1	1	0	1	0	0	0	0	0	0
619	URINARY-GENITAL TRACT FISTULAE FEMALE	1	0	1	1	0	1	0	0	0	0	0	0
629	HEMATOCELE FEMALE NEC	1	0	1	1	0	1	0	0	0	0	0	0
630 676	XI. COMPLICATIONS OF PREGNANCY, CHILOBIRTH, AND PUERPERIUM	4	0	4	2	0	2	2	0	2	0	0	0
640-648	COMPLICATIONS MAINLY RELATED TO PREGNANCY	2	0	2	1	0	1	1	0	1	0	0	0
642	BENIGN ESSENT HYPERTENSION COMP PREG ETC	2	0	2	1	0	1	1	0	1	0	0	0
660-669	COMPLICATIONS MAINLY DURING LABOUR AND DELIVERY	2	0	2	1	0	1	1	0	1	0	0	0
665	RUPTURE OF UTERUS BEFORE ONSET OF LABOUR	1	0	1	1	0	1	0	0	0	0	0	0
669	MATERNAL DISTRESS	1	0	1	0	0	0	1	0	1	0	0	0
680 709	XII. DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE	80	23	57	75	20	55	5	3	2	0	0	0
680-686	INFECTIONS OF SKIN AND SUBCUTANEOUS TISSUE	33	11	22	33	11	22	0	0	0	0	0	0
682	FACE	26	9	17	26	9	17	0	0	0	0	0	0
686	PYODERMA	7	2	5	7	2	5	0	0	0	0	0	0
690-698	OTHER INFLAMMATORY CONDITIONS OF SKIN AND SUBCUTANEOUS TISSUE	18	5	13	15	3	12	3	2	1	0	0	0
692	CONTACT DERMATITIS DUE TO DETERGENTS	1	1	0	1	1	0	0	0	0	0	0	0
693	DERMATITIS DUE TO DRUGS & MEDICAMENTS	1	0	1	1	0	1	0	0	0	0	0	0
694	DERMATITIS HERPETIFORMIS	5	1	4	4	1	3	1	0	1	0	0	0
695	TOXIC ERYTHEMA	7	3	4	5	1	4	2	2	0	0	0	0
696	PSORIATIC ARTHROPATHY	4	0	4	4	0	4	0	0	0	0	0	0
700-709	OTHER DISEASES OF SKIN AND SUBCUTANEOUS TISSUE	29	7	22	27	6	21	2	1	1	0	0	0
707	DECUBITUS ULCER	29	7	22	27	6	21	2	1	1	0	0	0

TABLE C-15 (CONTINUED)

1992

ICD. LIST NUMBER	CAUSE OF DEATH	T O T A L S			W H I T E			B L A C K			O T H E R		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
*710	739 XIII. DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE	164	43	121	159	42	117	5	1	4	0	0	0
710-719	ARTHRITIS AND RELATED DISORDERS	116	21	95	112	20	92	4	1	3	0	0	0
710	SYSTEMIC LUPUS ERYTHEMATOSUS	50	9	41	49	9	40	1	0	1	0	0	0
711	PSYCHOGENIC ARTHRITIS	1	1	0	1	1	0	0	0	0	0	0	0
714	RHEUMATOID ARTHRITIS	47	9	38	44	8	36	3	1	2	0	0	0
715	GENERAL OSTEOARTHRITIS & ALLIED DISORDERS	15	1	14	15	1	14	0	0	0	0	0	0
716	KASCHIN-BECK DISEASE	3	1	2	3	1	2	0	0	0	0	0	0
720-724	DORSOPATHIES	4	4	0	4	4	0	0	0	0	0	0	0
721	CERVICAL SPONDYLOSIS WITH MYELOPATHY	2	2	0	2	2	0	0	0	0	0	0	0
723	SPINAL STENOSIS IN CERVICAL REGION	1	1	0	1	1	0	0	0	0	0	0	0
724	SPINAL STENOSIS, OTHER THAN CERVICAL	1	1	0	1	1	0	0	0	0	0	0	0
725-729	RHEUMATISM, EXCLUDING THE BACK	9	7	2	9	7	2	0	0	0	0	0	0
726	ADHESIVE CAPSULITIS OF SHOULDER	1	1	0	1	1	0	0	0	0	0	0	0
728	INFECTIVE MYOSITIS	4	4	0	4	4	0	0	0	0	0	0	0
729	RHEUMATISM, UNSPECIFIED, AND FIBROSITIS	4	2	2	4	2	2	0	0	0	0	0	0
730-739	RHEUMATISM, CHRONOPATHIES & ACQUIRED MUSCULOSKELETAL DEFORMITIES	35	11	24	34	11	23	1	0	1	0	0	0
730	ACUTE OSTEOMYELITIS	9	5	4	8	5	3	1	0	1	0	0	0
731	OSTEITIS DEFORMANS WITHOUT MEN BONE TUMOUR	1	1	0	1	1	0	0	0	0	0	0	0
733	OSTEOPOROSIS	17	3	14	17	3	14	0	0	0	0	0	0
736	ACQUIRED DEFORM OF FOREARM EXCLUDING FINGERS	1	0	1	1	0	1	0	0	0	0	0	0
737	ADOLESCENT POSTURAL KYPHOSIS	7	2	5	7	2	5	0	0	0	0	0	0
*740	759 XIV. CONGENITAL ANOMALIES	215	109	106	193	98	95	16	8	8	6	3	3
740	ANENCEPHALUS	4	2	2	3	1	2	1	1	0	0	0	0
742	ENCEPHALOCELE	24	14	10	22	12	10	1	1	0	1	1	0
745	COMMON TRUNCUS	34	14	20	29	12	17	4	1	3	1	1	0
746	ANOMALIES OF PULMONARY VALVE	48	28	20	43	27	16	3	1	2	2	0	2
747	PATENT DUCTS ARTERIOSUS	20	13	7	19	12	7	1	1	0	0	0	0
748	CHOANAL ATRESIA	13	5	8	12	5	7	1	0	1	0	0	0
750	TONGUE TIE	2	1	1	2	1	1	0	0	0	0	0	0
751	MECKEL'S DIVERTICULUM	4	1	3	4	1	3	0	0	0	0	0	0
753	CONGENITAL RENAL AGENESIES & DYSGENESIS	9	5	4	8	4	4	1	1	0	0	0	0
756	ANOMALIES OF SKULL AND FACE BONE	11	7	4	11	7	4	0	0	0	0	0	0
757	HEREDITARY OEDEMA OF LEGS	2	0	2	2	0	2	0	0	0	0	0	0
758	DOWN'S SYNDROME	29	9	20	26	9	17	2	0	2	1	0	1
759	ANOMALIES OF SPLEEN	15	10	5	12	7	5	2	2	0	1	1	0

TABLE C-15

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ICD. LIST NUMBER	CAUSE OF DEATH	T O T A L S				W H I T E				B L A C K				O T H E R			
		TOT MALE	FEM	TOT MALE	FEM	TOT MALE	FEM	TOT MALE	FEM	TOT MALE	FEM	TOT MALE	FEM	TOT MALE	FEM	TOT MALE	FEM
*760	779	325	181	144	101	239	138	101	39	77	38	9	5	4	4	9	4
	XV. CERTAIN CONDITIONS ORIGINATING IN PERINATAL PERIOD																
760	MATERNAL HYPERTENSIVE DISORDERS	5	3	2	0	3	3	0	2	2	0	0	0	0	0	0	0
761	INCOMPETENT CERVIX	44	20	24	19	35	16	19	4	9	4	0	0	0	0	0	0
762	PLACENTA PRAEVIA	32	18	14	9	23	14	9	5	8	3	1	1	1	0	0	0
763	BREECH DELIVERY AND EXTRACTION	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0
764	LIGHT-FOR-DATES WHO MENT FETAL MALNUTRIT	2	0	2	2	2	0	2	0	0	0	0	0	0	0	0	0
765	EXTREME IMMATUREITY	79	44	35	21	53	32	21	11	23	12	3	0	3	3	0	3
766	SUBDURAL AND CEREBRAL HAEMORRHAGE	10	7	3	2	9	7	2	1	1	0	0	0	0	0	0	0
767	FETAL DISTRESS NOT FOR MC DATA	10	8	2	2	9	7	2	0	0	0	0	0	0	0	0	0
768	RESPIRATORY DISTRESS SYNDROME	40	22	18	15	33	18	15	3	6	3	1	1	1	0	0	0
769	CONGENITAL PNEUMONIA	46	26	20	15	33	18	15	5	11	6	2	2	2	0	0	0
770	CONGENITAL RUBELLA	14	7	7	4	10	6	4	1	4	1	0	0	0	0	0	0
771	FETAL BLOOD LOSS	6	4	2	1	4	3	1	1	2	1	0	0	0	0	0	0
772	HAEMORRHAGIC DISEASE OF NEWBORN	2	1	1	0	1	1	0	1	1	0	0	0	0	0	0	0
776	OTHER MECONIUM OBSTRUCTION	11	7	4	2	6	4	2	1	4	3	1	0	1	0	1	1
777	HYDROPS FETALIS NOT DUE ISOIMMUNIZATION	2	0	2	2	2	0	2	0	0	0	0	0	0	0	0	0
778	CONVULSIONS IN NEWBORN	21	14	7	6	15	9	6	1	6	5	1	0	0	0	0	0
779		360	188	172	160	336	176	160	9	17	8	7	4	3	3	7	4
*780	799	88	45	43	42	84	42	42	1	2	1	2	2	0	0	0	0
	XVI. SYMPTOMS SIGNS, AND ILL-DEFINED CONDITIONS																
780-789	SYMPTOMS	30	15	15	15	30	15	15	0	0	0	0	0	0	0	0	0
780	COMA & STUPOR	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0
781	ABNORMAL INVOLUNTARY MOVEMENTS	6	2	4	3	5	2	3	1	1	0	0	0	0	0	0	0
783	ANOREXIA	46	25	21	21	43	22	21	0	1	1	2	2	0	0	0	0
785	TACHYCARDIA, UNSPECIFIED	1	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0
786	DYSPONOEA AND RESPIRATORY ABNORMALITIES	4	2	2	2	4	2	2	0	0	0	0	0	0	0	0	0
789	ABDOMINAL PAINS	2	1	1	1	2	1	1	0	0	0	0	0	0	0	0	0
790-796	NONSPECIFIC ABNORMAL FINDINGS	2	1	1	1	2	1	1	0	0	0	0	0	0	0	0	0
791	PROTEINURIA	270	142	128	117	250	133	117	8	15	7	5	2	3	3	7	4
797-799	ILL-DEFINED AND UNKNOWN CAUSES OF MORBIDITY AND MORTALITY																
797	SENILITY W/O MENT.PSYCHOSIS	10	2	8	8	10	2	8	0	0	0	0	0	0	0	0	0
798	SUDDEN INFANT DEATH SYNDROME	67	40	27	20	55	35	20	4	9	4	3	1	2	2	1	1
799	ASPHYXIA	193	100	93	89	185	96	89	3	6	3	2	1	1	1	1	1
*800	999	2321	1592	729	679	2125	1446	679	41	169	128	26	17	9	9	26	17
	XVII. EXTERNAL CAUSES OF INJURY AND POISONING																
800-807	RAILWAY ACCIDENTS	6	4	2	2	6	4	2	0	0	0	0	0	0	0	0	0
805	HIT BY ROLLING STOCK-EMPLOYEE	6	4	2	2	6	4	2	0	0	0	0	0	0	0	0	0
810-819	MOTOR VEHICLE TRAFFIC ACCIDENTS	547	368	179	172	516	344	172	5	20	15	10	8	2	2	10	8
810	M/V COLLISION M/TRAIN, DRIVER	3	0	3	3	3	0	3	0	0	0	0	0	0	0	0	0
812	M/V STOPPED M/V - DRIVER	173	116	57	56	164	108	56	1	5	4	3	3	0	0	3	0
813	MTR/VEH W/OTH VEH - OR NO CYCLE	9	6	3	3	8	5	3	1	1	1	0	0	0	0	0	0
814	MTR/VEH W/PEDISTRIAN - OR NO-CYCLE	112	75	37	35	107	72	35	2	3	2	2	1	1	1	2	1
815	M/V HWY COLLISION - DRIVER	187	129	58	56	177	121	56	2	7	5	3	3	0	0	3	3
816	M/V LOST CONTROL W/O COLL - DRIVER	35	26	9	7	29	22	7	1	4	3	2	1	1	1	2	1
818	OTH NO-COLL MTR/VEH - DRIVER	5	2	3	3	5	2	3	0	0	0	0	0	0	0	0	0
819	M/V ACC UNSPEC - DRIVER	23	14	9	9	23	14	9	0	0	0	0	0	0	0	0	0
820-825	MOTOR VEHICLE NONTRAFFIC ACCIDENTS	11	11	0	0	11	11	0	0	0	0	0	0	0	0	0	0

1992

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TABLE C-15 (CONTINUED)

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ICD. LIST NUMBER	CAUSE OF DEATH XVII. EXTERNAL CAUSES OF INJURY AND POISONING	***** T O T A L S *****										***** W H I T E *****										***** B L A C K *****										***** O T H E R *****									
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM				
960-969	HOMICIDE AND INJURY PURPOSELY INFLICTED BY OTHER PERSONS	226	157	69	154	99	55	154	99	55	70	58	12	70	58	12	319	183	136	319	183	136	319	183	136	319	183	136	319	183	136	319	183	136	319	183	136				
963	ASSAULT BY HANGING AND STRANGULATION	20	4	16	16	3	13	16	3	13	4	1	3	4	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
964	ASSAULT BY SUBMERSION(DROWNING)	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
965	ASSAULT BY HANDGUN	109	90	19	63	48	15	63	48	15	46	42	4	46	42	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
966	ASSAULT BY CUTTING AND PIERCING INSTRUM	50	30	20	36	21	15	36	21	15	13	9	4	13	9	4	1	0	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0				
967	ASSAULT BY BATTERING,OTH MALTREATMENT BYPAREN	1	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
968	CHILD BATTERING,OTH MALTREATMENT BYPAREN	42	29	13	36	24	12	36	24	12	6	5	1	6	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
969	ASSAULT BY FIRE	3	3	0	2	2	0	2	2	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
970-978	LATE EFFECT INJY INFLICTED BY OTH PERSON	2	2	0	2	2	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
970	LEGAL INTERVENTION - FIREARMS	2	2	0	2	2	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
980-989	LEGAL INTERVENTION - WHETHER ACCIDENTALLY INJURY UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED	275	209	66	248	191	57	248	191	57	26	17	9	26	17	9	1	1	1	1	0	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0			
980	POISONING,ANALGESICS,ANTIPYRE & ANTIRHEU	249	186	63	224	169	55	224	169	55	24	16	8	24	16	8	1	1	1	1	0	1	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0			
982	POISONING,M/V EXHAUST GAS	3	3	0	3	3	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
984	SUBMERSION, DROWNING	7	7	0	7	7	0	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
985	INJURY BY HANDGUN	2	2	0	1	1	0	1	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
987	FALL FR HIGH PLACE,RESIDENTIAL PREMISES	1	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
988	JUMPING OR LYING BEFORE MOVING OBJECT	13	10	3	12	10	2	12	10	2	1	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
***	RESIDENT GRAND TOTALS	53804	26034	27770	51525	24790	26735	51525	24790	26735	1957	1059	898	1957	1059	898	319	183	136	319	183	136	319	183	136	319	183	136	319	183	136	319	183	136	319	183	136				

TOTALS INCLUDE 3 OF UNKNOWN RACE: 2 MALES AND 1 FEMALES.



# ***INFANT & NEONATAL DEATHS***



## SECTION D

### INFANT AND NEONATAL DEATHS

The total number of resident infant deaths (deaths of children less than 1 year of age) decreased by 1.2% in Massachusetts from 576 in 1991 to 569 in 1992. The rate of infant deaths remained the same in 1992 as in 1991--6.5 infant deaths per 1,000 live births. As with live births and other deaths, all Massachusetts resident infant deaths are included regardless of the state in which they occurred. Neonatal deaths (deaths of infants under 28 days of age) increased from 400 in 1991 to 415 in 1992, an increase of 3.8%. The rate of neonatal deaths also increased from 4.5 per 1,000 live births in 1991 to 4.8 per 1,000 live births in 1992. (It was 4.8 in 1990, as well.)

#### INFANT DEATHS BY RACE

Beginning with the publication of 1989 data, several changes occurred in the method of calculating infant mortality rates (IMRs) by race and ethnicity. These changes affect only the **calculation of race/ethnic infant mortality rates; all other data presented in this publication are comparable to information from previous years.** These changes are the result of new federal recommendations for analyzing birth information, including infant mortality data, and the implementation of the new Massachusetts Standard Certificate of Death in 1989.

#### Using mother's race rather than infant's race:

The National Center for Health Statistics (NCHS) has recommended classifying births on the birth certificate according to the self-reported race of the mother. In the past, the race of the infant was assigned by combining information on the races of the mother and the father. However, based on changes in statistical conventions by the National Center for Health Statistics, Massachusetts now follows the new NCHS guidelines and calculates infant mortality using mother's race.

It is important to remember that the total number of infant deaths does not change--nor do the race/ethnic categories into which they are placed. (The death certificate only contains race/ethnic identifiers for the decedent, in this case the infant. It contains no race or ethnicity information about the mother.) Only the race/ethnic category used to classify births changes.

The impact of this change is to lower the white infant mortality rate and raise the black infant mortality rate. For example, using infant's race in 1992, the white IMR was 5.7 per 1,000 births; the black IMR was 15.8. Using the same death information, but classifying births according to mother's race, the white IMR declines to 5.5 and the black IMR increases to 16.4. Thus, the gap between the white IMR and the black IMR increases from 177% to 198%, based solely on the change in method of computation.

The rates in the last column of the following table for 1992 should be used to compare white non-Hispanic, black non-Hispanic, Hispanic, and Asian infant mortality rates. Use the rates in the second column ("Classified by Race") to compare time trends in infant mortality rates prior to 1989.

Race Group	Classified by Race	Mother's Race/Ethnicity	Infant Mortality Rate
White	5.7	White non-Hispanic	5.5
Black	15.8	Black non-Hispanic	16.4
Other	4.7	Hispanic	7.9
		Asian	4.9
		Other	5.1
<b>TOTAL</b>	<b>6.5</b>	<b>TOTAL</b>	<b>6.5</b>

### A Summary of the Impact of Classification Changes on 1992 IMRs

CHANGE	ADVANTAGES	IMPACT
Using mother's race rather than infant's race to categorize births	<ul style="list-style-type: none"> <li>•Provides consistency with federal guidelines</li> <li>•Discontinues arbitrary combination of parents' race responses to classify infant race</li> </ul>	<ul style="list-style-type: none"> <li>•Reduces comparability with previously published data for past years</li> <li>•<b>Lowers</b> the IMR for whites and <b>raises</b> the IMR for blacks, thus increasing the gap between white and black rates</li> <li>•Reduces comparability with other states and federal data that have not implemented this change</li> </ul>

### INFANT DEATHS BY AGE

Of all infant deaths, 60.8% (343 infants) died within the first week of life in 1992, compared to 56.8% (327 infants) in 1991. Of these, 48.5% (276 infants) died within the first 24 hours of life in 1992, compared to 40.3% (232 infants) in 1991.

### INFANT DEATHS BY CAUSE

The leading cause of infant deaths was certain conditions originating in the perinatal period (medical conditions arising from approximately 28 weeks gestation to 28 days of age). These deaths accounted for 56.9% of all infant deaths in 1992, an increase from the 1991 percentage of 51.4%. The second leading cause of infant deaths was congenital anomalies, which accounted for 18.5% of infant deaths. The third leading cause of infant deaths was sudden infant death syndrome (SIDS), which increased in number from 58 infant deaths in 1991 (10.1% of all infant deaths) to 62 infant deaths in 1992 (10.9% of all infant deaths).

## NEONATAL MORTALITY BY BIRTHWEIGHT<sup>1</sup>

The data on neonatal mortality by birthweight are provided from a file linking the birth and death records of infants less than 28 days old who were born to residents of Massachusetts during 1992, regardless of when the death occurred. Thus, deaths occurring in January of the subsequent year are included if the birth occurred in December of the data year. Deaths occurring in January of the data year are not included if the birth occurred in December of the previous year. Denominators are resident births of the data year. During the creation of this linked file, additional records may be located or changes made from previously published data which may slightly alter the number of resident births used to calculate mortality rates. In Figure D-3 and Table D-5, Massachusetts uses a file that links the death of each neonate to his/her own birth record. By linking the death record to the statistical portion of the birth record, the reasons for each neonate's death can be examined (e.g., the month that prenatal care began, the total number of prenatal visits, medical risk factors such as smoking and alcohol consumption, etc.). Please keep in mind, however, that the figures presented in Table D-5 cannot be directly compared to other tables in this report.

Neonatal mortality is highly correlated with low birthweight. Low birthweight (babies under 2,500 grams or 5 pounds, 8 ounces) accounted for 5.9% of all babies born in Massachusetts in 1991 and 74.8% of all neonatal deaths. As can be seen in Table D-5, of 102 infants weighing less than 500 grams at birth in 1991, 96 of these babies did not survive. This resulted in a neonatal mortality rate of 941.2 deaths for every 1,000 live births in that weight category. Neonatal mortality rates decrease dramatically as birthweight increases.

### DEFINITIONS IMPORTANT FOR THIS SECTION INCLUDE:

#### INFANT DEATH

Death of a child whose age is less than one year (365 days).

#### NEONATAL DEATH

Death of a child whose age is less than 28 days.

#### POST NEONATAL DEATH

Death of a child whose age is at least 28 days, but less than one year.

### RATES IMPORTANT FOR THIS SECTION INCLUDE:

INFANT MORTALITY RATE (IMR)	<u>Number of Resident Deaths at Less than 1 Year of Age</u> x 1,000 Total Resident Live Births
NEONATAL MORTALITY RATE (NMR)	<u>Number of Resident Deaths at Less than 28 Days of Age</u> x 1,000 Total Resident Live Births

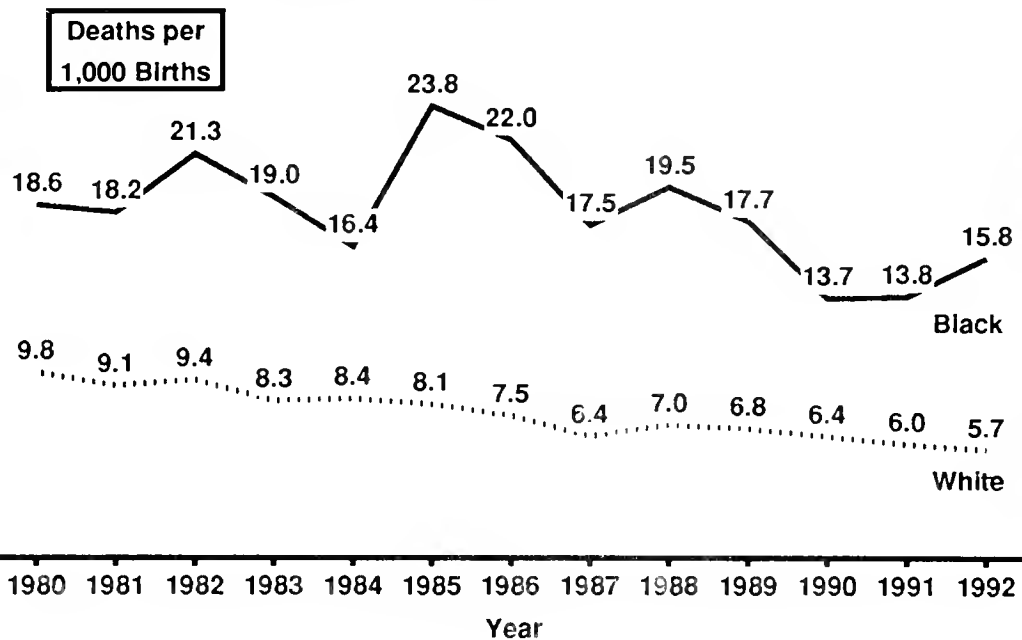
<sup>1</sup> At publication time, the linked file for 1992 neonatal births and deaths was not complete.





Figure D-1

Infant Mortality Rates by Mother's Race<sup>1,2</sup>  
Massachusetts: 1980-1992



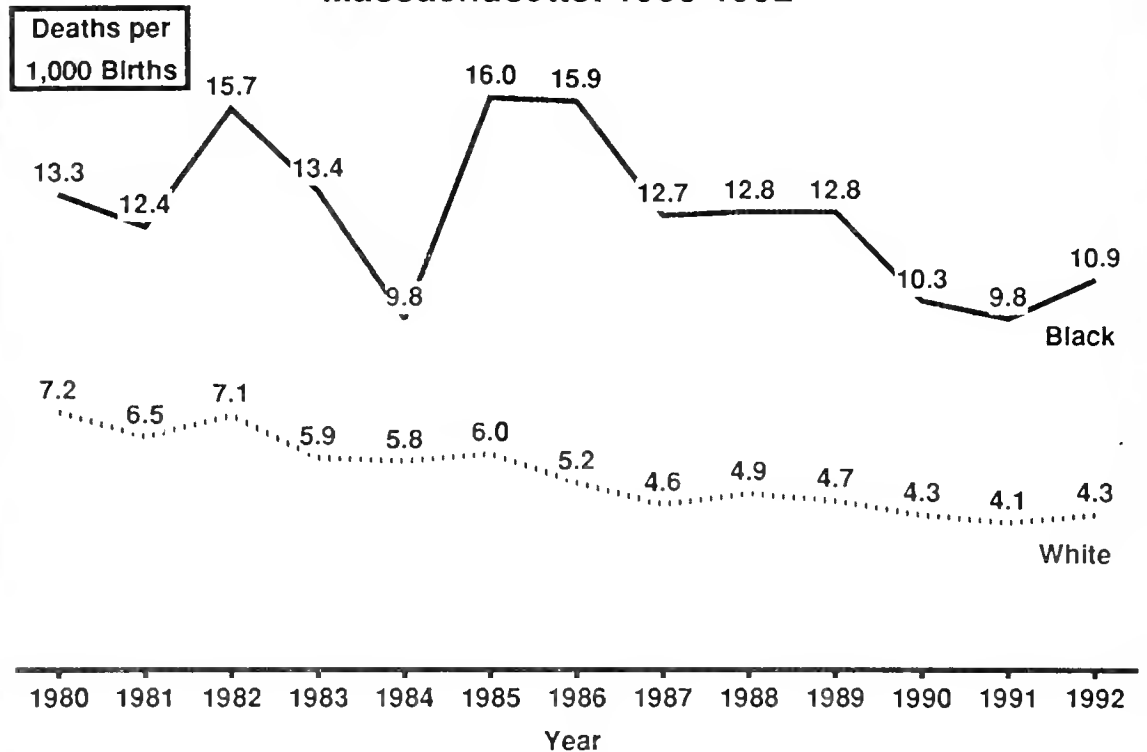
1. Infant: A child less than one year (365 days) old

2. Deaths of infants of unknown race are excluded except for the total calculation

For rate computations, infants of unknown race are allocated into the race categories according to the distribution of births of known races

Figure D-2

**Neonatal Mortality Rates by Mother's Race<sup>1,2</sup>**  
**Massachusetts: 1980-1992**



1. Neonatal: Infants under 28 days old

2. Deaths of infants of unknown race are excluded except for the total calculation.

For rate computations, infants of unknown race are allocated into the race categories according to the distribution of births of known races.

**TABLE D-1**  
**INFANT AND NEONATAL DEATHS**  
**MASSACHUSETTS AND UNITED STATES RESIDENT DEATHS**  
**1970-1992**

Year	Infant Deaths (Deaths Under One Year)			Neonatal Deaths (Deaths Under 28 Days)		
	# of Deaths	Rate Per 1,000 Live Births		# of Deaths	Rate Per 1,000 Live Births	
		MA	U.S. <sup>1</sup>		MA	U.S.
1970	1,583	16.9	20.0	1,231	13.1	15.1
1971	1,462	16.8	19.1	1,130	13.0	14.2
1972	1,164	15.1	18.5	896	11.6	13.6
1973	1,104	15.2	17.7	861	11.9	13.0
1974	976	13.9	16.7	763	10.8	12.3
1975	903	13.2	16.1	678	9.9	11.6
1976	799	12.1	15.2	585	8.9	10.9
1977	806	11.8	14.1	616	9.1	9.9
1978	753	11.0	13.8	552	8.1	9.5
1979	760	10.8	13.1	564	8.0	8.9
1980	748	10.3	12.6	550	7.6	8.5
1981	710	9.6	11.9	510	6.9	8.0
1982	764	10.1	11.5	573	7.6	7.7
1983	682	9.0	11.2	482	6.3	7.3
1984	699	8.9	10.8	472	6.0	7.0
1985	745	9.1	10.6	538	6.6	7.0
1986	695	8.4	10.4	478	5.8	6.7
1987	608	7.2	10.0	432	5.1	6.5
1988	693	7.9	10.0	477	5.4	6.3
1989	697	7.6	9.8	479	5.2	6.3
1990	649	7.0	9.2	446	4.8	5.8
1991	576 <sup>2</sup>	6.5	8.9	400	4.5	5.6
1992	569	6.5	8.5	415	4.8	5.4

<sup>1</sup> Source of U.S. data: "Annual Summary of Births, Marriages, Divorces, and Deaths, United States", Monthly Vital Statistics Report, Provisional Data from the National Center for Health Statistics, U.S. Department of Health and Human Services

<sup>2</sup> Differences in the number of infant and neonatal deaths from previous publications are the result of updated files

**TABLE D-2**  
**TRENDS IN INFANT, NEONATAL AND POST NEONATAL MORTALITY<sup>1</sup> BY RACE**  
**MASSACHUSETTS RESIDENT DEATHS**  
**1980-1992**

Year	Infant Deaths <sup>2</sup>							
	Total <sup>3</sup>		White		Black		Other <sup>4</sup>	
	#	Rate <sup>5</sup>	#	Rate	#	Rate	#	Rate
1980	748	10.3	655	9.8	87	18.6	5	4.6
1981	710	9.6	616	9.1	85	18.2	8	6.1
1982	764	10.1	656	9.4	102	21.3	5	3.3
1983	682	9.0	579	8.3	89	19.0	12	7.4
1984	699	8.9	601	8.4	82	16.4	13	7.5
1985	745	9.1	608	8.1	126	23.8	11	6.1
1986	695	8.4	560	7.5	123	22.0	11	4.6
1987	608	7.2	486	6.4	110	17.5	12	4.5
1988	693	7.9	546	7.0	133	19.5	13	3.8
1989	697	7.6	549	6.8	131	17.7	17	4.8
1990	649	7.0	519	6.4	106	13.7	24	6.5
1991	576	6.5	460	6.0	102	13.8	14	3.9
1992	569	6.5	438	5.7	114	15.8	17	4.7

Year	Neonatal Deaths <sup>6</sup>							
	Total		White		Black		Other	
	#	Rate	#	Rate	#	Rate	#	Rate
1980	550	7.6	483	7.2	62	13.3	5	4.6
1981	510	6.9	442	6.5	59	12.4	5	3.8
1982	573	7.6	494	7.1	75	15.7	3	-- <sup>7</sup>
1983	482	6.3	411	5.9	63	13.4	7	4.3
1984	472	6.0	411	5.8	49	9.8	8	4.6
1985	538	6.6	447	6.0	85	16.0	5	2.8
1986	478	5.8	383	5.2	89	15.9	5	2.1
1987	432	5.1	343	4.6	80	12.7	9	3.4
1988	477	5.4	383	4.9	87	12.8	6	1.8
1989	479	5.2	376	4.7	95	12.8	8	2.3
1990	446	4.8	347	4.3	80	10.3	19	5.1
1991	400	4.5	318	4.1	72	9.8	10	2.8
1992	415	4.8	325	4.3	79	10.9	11	3.1

**TABLE D-2 (continued)**  
**TRENDS IN INFANT, NEONATAL AND POST NEONATAL MORTALITY BY RACE**  
**MASSACHUSETTS RESIDENT DEATHS**  
**1980-1992**

Year	Post Neonatal Deaths <sup>8</sup>							
	Total		White		Black		Other	
	#	Rate	#	Rate	#	Rate	#	Rate
1980	198	2.7	172	2.6	25	5.3	0	--
1981	200	2.7	174	2.6	26	5.8	3	--
1982	191	2.5	162	2.3	27	5.6	2	--
1983	200	2.7	168	2.4	26	5.6	5	3.1
1984	227	2.9	190	2.6	33	6.6	5	2.9
1985	207	2.5	161	2.1	41	7.8	6	3.3
1986	217	2.6	177	2.3	34	6.1	6	2.5
1987	176	2.1	143	1.8	30	4.8	3	--
1988	216	2.5	163	2.1	46	6.7	7	2.0
1989	218	2.4	173	2.1	36	4.9	9	2.5
1990	203	2.2	172	2.1	26	3.4	5	1.4
1991	176	2.0	142	1.8	30	4.1	4	--
1992	154	1.8	113	1.5	35	4.8	6	1.7

<sup>1</sup> Hispanic origin could not be identified on the Massachusetts death certificate before 1989; thus, Hispanic trend data are not available. Most Hispanics are included in the race category of white.

<sup>2</sup> Infant: A child less than one year (365 days) old.

<sup>3</sup> Deaths of infants of unknown race are excluded except for total calculation. For rate computations, infants of unknown race are allocated into race categories according to the distribution of births of known race.

<sup>4</sup> Other: Asian, American Indian, and other race.

<sup>5</sup> Infant, neonatal and post neonatal mortality rates are per 1,000 live births.

<sup>6</sup> Neonate: A child less than 28 days old.

<sup>7</sup> Calculations based on fewer than five events are excluded.

<sup>8</sup> Post Neonate: A child whose age is at least 28 days, but less than one year.

**TABLE D-3**  
**INFANT, NEONATAL, AND POST NEONATAL DEATHS BY SELECTED CAUSES**  
**MASSACHUSETTS RESIDENT DEATHS**  
**1992**

Cause of Death	ICD-9 Code <sup>1</sup>	Infant (<1 year) # %	Neonatal (<28 days) # %	Post Neonatal (28 days-<1 year) # %
<b>TOTAL</b>		569 100.0	415 100.0	154 100.0
Infectious and Parasitic Diseases	001-139	7 1.2	2 -- <sup>2</sup>	5 3.2
Inflammatory Diseases of the Central Nervous System	320-326	2 --	0 0.0	2 --
Diseases of the Circulatory System	390-459	15 2.6	6 1.4	9 5.8
Diseases of the Respiratory System	460-519	5 0.9	1 --	4 --
Diseases of the Digestive System	520-579	5 0.9	1 --	4 --
Congenital Anomalies	740-759	105 18.4	70 16.9	35 22.7
Congenital anomalies of the heart	745-746	41	22	19
Congenital anomalies of the respiratory system	748	12	10	2
Chromosomal anomalies	758	16	10	6
Certain Conditions Originating in the Perinatal Period	760-779	324 56.9	314 75.7	10 6.5
Newborn affected by maternal complications of pregnancy	761	44	44	0
Newborn affected by complications of placenta, cord and membrane	762	32	32	0
Disorders relating to short gestation and unspecified low birthweight	765	79	77	2
Birth trauma	767	10	10	0
Intrauterine hypoxia and birth asphyxia	768	10	8	2
Respiratory distress syndrome	769	40	39	1
Other respiratory conditions	770	46	44	2
Infections specific to the perinatal period	771	14	14	0
Perinatal disorders of digestive system	777	11	8	3
Ill-defined conditions originating in the perinatal period	779	21	21	0
Sudden Infant Death Syndrome (SIDS)	798.0	62 10.9	3 --	59 38.3
Injuries	E800-E999	11 1.9	3 --	8 5.2
All Other Causes	Residual	33 5.8	15 3.6	18 11.7

<sup>1</sup> The ICD-9 subcategories are only selected causes, and the sum does not equal the total

<sup>2</sup> Calculations based on fewer than five events are excluded

**TABLE D-4  
INFANT AND NEONATAL DEATHS BY AGE, SEX, RACE AND ETHNICITY  
MASSACHUSETTS RESIDENT DEATHS  
1992**

	TOTAL			WHITE NON-HISPANIC			BLACK NON-HISPANIC			HISPANIC			ASIAN			OTHER		
	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total (< one year) <sup>1</sup> Rate <sup>2</sup>	589 6.5	321 7.2	248 5.8	371 5.5	217 6.2	154 4.7	110 16.4	58 17.1	52 15.8	67 7.9	37 8.5	30 7.2	16 4.9	8 4.7	8 5.0	5 5.2	1 .. <sup>3</sup>	4 ..
< One Day	276	150	126	183	98	85	50	26	24	36	23	13	5	2	3	2	1	1
1 Day	21	14	7	17	13	4	3	0	3	1	1	0	0	0	0	0	0	0
2 Days	19	15	4	12	10	2	4	3	1	2	1	1	1	1	0	0	0	0
3 Days	12	8	4	11	7	4	1	1	0	0	0	0	0	0	0	0	0	0
4 Days	6	4	2	3	1	2	1	1	0	1	1	0	1	1	0	0	0	0
5 Days	5	1	4	1	0	1	3	1	2	1	0	1	0	0	0	0	0	0
6 Days	4	3	1	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0
< One Week Rate <sup>2</sup>	343 3.9	195 4.4	148 3.5	231 3.4	132 3.8	99 3.0	62 9.3	32 9.4	30 9.1	41 4.8	26 6.0	15 3.6	7 2.1	4 ..	3 ..	2 ..	1 ..	1 ..
7-13 Days	33	19	14	18	12	6	7	4	3	5	1	4	2	2	0	1	0	1
14-27 Days	39	17	22	25	11	14	7	5	2	5	1	4	1	0	1	1	0	1
< 28 Days Rate <sup>2</sup>	415 4.8	231 5.2	184 4.3	274 4.0	155 4.5	119 3.6	76 11.4	41 12.1	35 10.6	51 6.0	28 6.4	23 5.5	10 3.0	6 3.5	4 ..	4 ..	1 ..	3 ..
1 Month	45	23	22	29	13	16	12	7	5	3	3	0	0	0	0	1	0	1
2 Months	20	16	4	12	11	1	5	4	1	2	1	1	1	0	1	0	0	0
3 Months	23	13	10	14	8	6	7	3	4	2	2	0	0	0	0	0	0	0
4 Months	14	8	6	11	8	3	1	0	1	0	0	0	2	0	2	0	0	0
5 Months	10	7	3	5	4	1	0	0	0	3	1	2	2	2	0	0	0	0
6 Months	11	4	7	7	4	3	2	0	2	1	0	1	2	2	0	0	0	0
7 Months	10	5	5	7	4	3	1	1	0	2	0	2	0	0	1	0	0	0
8 Months	4	1	3	3	1	2	0	0	0	1	0	1	0	0	0	0	0	0
9 Months	6	4	2	3	3	0	3	1	0	1	0	1	0	0	0	0	0	0
10 Months	6	5	1	4	4	0	1	0	1	1	1	0	0	0	0	0	0	0
11 Months	5	4	1	2	2	0	2	1	1	1	1	0	0	0	0	0	0	0

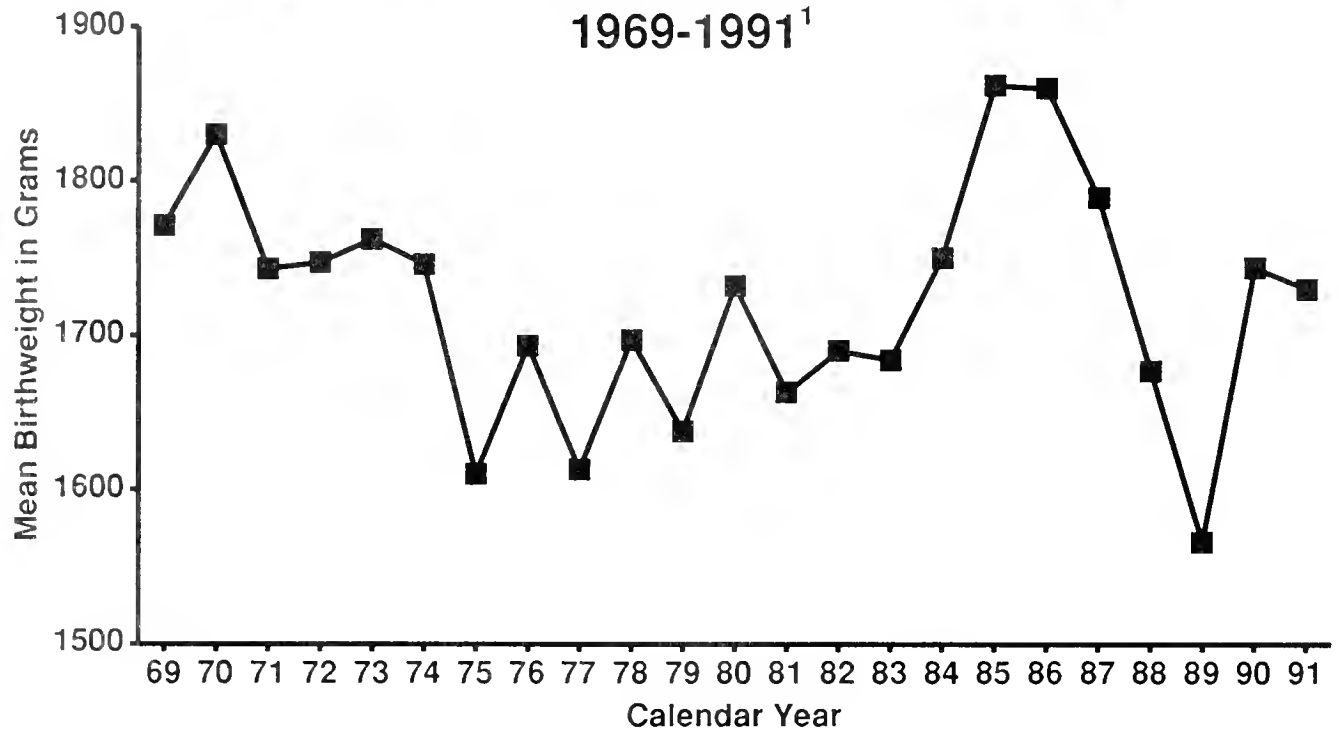
<sup>1</sup> In calculating infant mortality rates by race, deaths of infants of unknown race are excluded except for total calculation. For rate computations, infants of unknown race are allocated into race categories according to the distribution of births of known race

<sup>2</sup> Rates per 1,000 live births

<sup>3</sup> Calculations based on fewer than five events are excluded

Figure D-3

# Neonatal Deaths by Mean Birthweight 1969-1991<sup>1</sup>



<sup>1</sup> Data for 1992 were not available at time of publication.



**TABLE D-5  
NEONATAL MORTALITY BY BIRTHWEIGHT <sup>1</sup>  
MASSACHUSETTS RESIDENT BIRTHS/DEATHS  
1980-1991<sup>2</sup>**

All Birthweights			<500 grams	500-1499 grams	1500-2499 grams	2500-4499 grams	4500-8165 grams	Unknown
1980	Neonatal Deaths	539	85	237	73	112	4	28
	Births	72,627	90	650	3,687	66,714	1,398	88
	Rate <sup>3</sup>	7.4	944.4	364.6	19.8	1.7	2.9	318.2
1981	Neonatal Deaths	467	74	202	56	95	4	36
	Births	73,960	84	666	3,687	67,968	1,474	81
	Rate	6.3	881.0	303.3	15.2	1.4	2.7	444.4
1982	Neonatal Deaths	567	90	263	69	127	3	15
	Births	75,771	91	752	3,614	69,785	1,461	68
	Rate	7.5	989.0	349.7	19.1	1.8	2.0	220.6
1983	Neonatal Deaths	484	90	210	53	103	3	25
	Births	76,080	96	709	3,688	69,906	1,594	87
	Rate	6.4	937.5	296.2	14.4	1.5	1.9	287.4
1984	Neonatal Deaths	479	87	172	60	98	3	59
	Births	78,237	94	667	3,839	71,826	1,693	118
	Rate	6.1	925.5	257.9	15.6	1.4	1.8	500.0
1985	Neonatal Deaths	534	117	193	72	119	7	26
	Births	81,844	123	754	3,910	75,216	1,746	95
	Rate	6.5	951.2	256.0	18.4	1.6	4.0	273.7
1986	Neonatal Deaths	479	101	166	59	100	9	44
	Births	82,324	107	693	3,880	74,648	1,849	1,147
	Rate	5.8	943.9	239.5	15.2	1.3	4.9	38.4
1987	Neonatal Deaths	427	93	155	61	80	6	32
	Births	84,343	93	713	4,041	77,200	1,906	390
	Rate	5.1	1000.0	217.4	15.1	1.0	3.1	82.0
1988	Neonatal Deaths	443	107	189	44	86	6	11
	Births	88,047	108	869	4,289	80,617	1,864	300
	Rate	5.0	990.7	217.5	10.3	1.1	3.2	36.7
1989	Neonatal Deaths	496	133	214	49	80	4	16
	Births	91,728	141	930	4,375	84,175	1,973	134
	Rate	5.4	943.3	230.1	11.2	0.9	2.0	119.4
1990	Neonatal Deaths	445	115	174	46	90	1	19
	Births	92,686	124	858	4,432	85,146	1,874	252
	Rate	4.8	927.4	202.8	10.4	1.1	0.5	75.4
1991	Neonatal Deaths	401	96	159	45	83	5	13
	Births	88,176	102	900	4,198	81,066	1,829	81
	Rate	4.5	941.2	176.7	10.7	1.0	2.7	160.5

<sup>1</sup> The figures used in this table cannot be directly compared with other tables in this report. Please refer to the "Neonatal Mortality By Birthweight" portion of the Section D narrative for further explanation.

<sup>2</sup> Data for 1992 were not available at time of publication.

<sup>3</sup> Rates are per 1,000 resident live births.



# ***MARRIAGES & DIVORCES***



## SECTION E

### MARRIAGES AND DIVORCES

Marriages and divorces are reported by place of occurrence in Massachusetts. For example, if two Andover residents are married in Topsfield, this marriage will be reported by place of occurrence (Topsfield) rather than the residence of the couple (Andover). Marriages have traditionally been reported in this manner because of the number of couples who live in different communities. Additionally, out-of-state residents who marry in Massachusetts are included in these data.

Marriages and divorces which involve Massachusetts residents, but occur in other states, are not included in these figures. No system of interstate exchange exists for these events. Unlike some states, Massachusetts marriage and divorce laws neither encourage out-of-state residents to come to the state nor discourage residents from using the Massachusetts system by imposing long waiting periods, etc. This allows the marriage data to be used to estimate resident marriages.

In 1992, 43,228 marriages occurred in Massachusetts compared to 44,621 in 1991, a decrease of 3.1%. The rate of marriages was 7.1 per 1,000 population in 1992, a decrease from the 1991 rate of 7.4. The 1992 U.S. rate of marriages per 1,000 population was 9.3, slightly less than the 1991 U.S. rate of 9.4. Of all brides in Massachusetts in 1992, 75.0% had never previously married. This percentage was slightly less among the grooms--74.2%.

In 1992, 15,411 divorces were granted in Massachusetts, an increase of 2.8% from the 14,987 divorces granted in 1991. The 1992 rate of divorce per 1,000 population in Massachusetts was 2.5, the same as in 1991. This rate was well below the 1992 U.S. rate of 4.8 divorces per 1,000 population.

#### RATES IMPORTANT FOR THIS SECTION INCLUDE:

MARRIAGE RATE       $\frac{\text{Number of Occurrence Marriages}}{\text{Total Population}} \times 1,000$

DIVORCE RATE       $\frac{\text{Number of Occurrence Divorces}}{\text{Total Population}} \times 1,000$

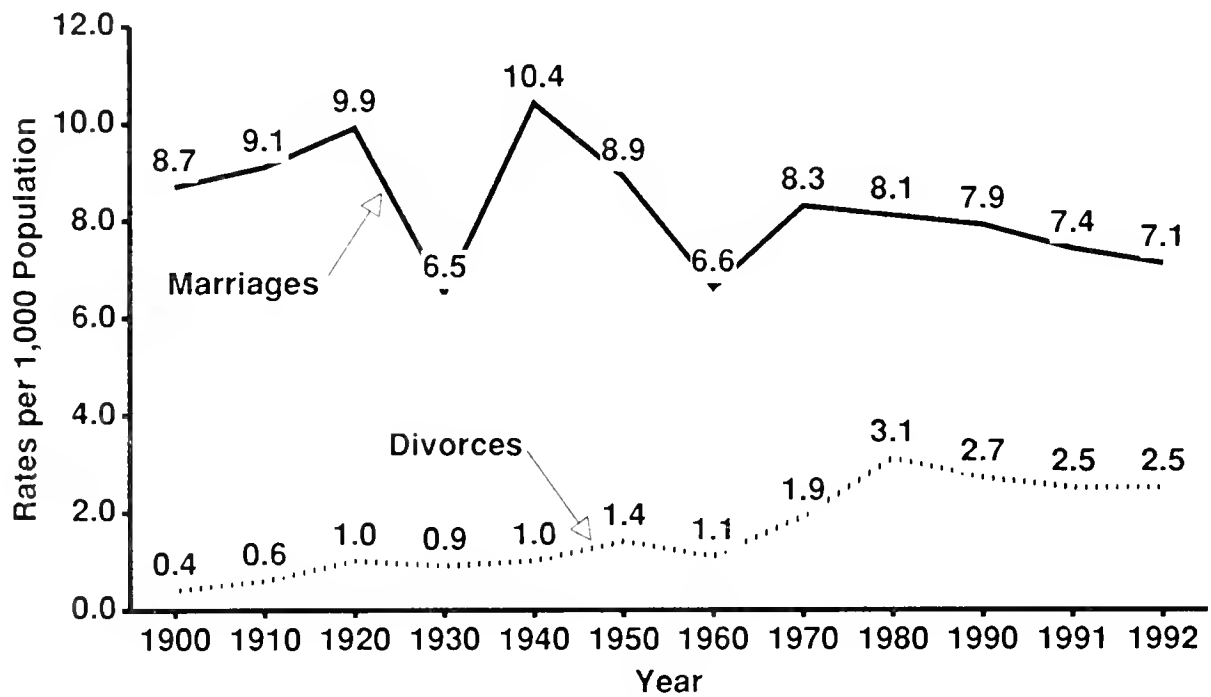


**TABLE E-1  
MARRIAGES AND DIVORCES BY COUNTY  
MASSACHUSETTS OCCURRENCE  
1992**

	MARRIAGES	DIVORCES
STATE TOTAL	43,228	15,411
<u>COUNTIES</u>		
BARNSTABLE	1,955	553
BERKSHIRE	1,082	522
BRISTOL	3,558	1,627
DUKES	343	60
ESSEX	5,145	1,910
FRANKLIN	477	275
HAMPDEN	3,057	1,439
HAMPSHIRE	927	266
MIDDLESEX	9,667	2,002
NANTUCKET	235	38
NORFOLK	4,201	1,573
PLYMOUTH	2,929	1,310
SUFFOLK	4,732	1,523
WORCESTER	4,920	2,313

**Figure E-1**

**Rates of Marriages and Divorces per 1,000 Population  
1900-1992**





**TABLE E-2**  
**MARRIAGES AND DIVORCES AND RATES PER 1,000 POPULATION**  
**MASSACHUSETTS OCCURRENCE**  
**1900-1992**

YEAR	MARRIAGES		DIVORCES	
	NUMBER	RATE	NUMBER	RATE
1900	24,342	8.7	1,258	0.4
1905	27,184	9.1	1,554	0.5
1910	30,710	9.1	1,929	0.6
1915	31,301	8.5	2,252	0.6
1920	38,048	9.9	3,647	1.0
1925	31,238	7.5	3,395	0.8
1930	27,431	6.5	3,746	0.9
1935	30,019	6.9	4,081	0.9
1940	44,836	10.4	4,502	1.0
1945	38,197	8.5	6,833	1.5
1950	41,711	8.9	6,365	1.4
1955	35,585	7.3	5,601	1.2
1960	34,050	6.6	5,592	1.1
1965	38,281	7.2	7,728	1.5
1970	47,292	8.3	10,818	1.9
1975	42,103	7.3	16,460	2.8
1980	46,273	8.1	17,873	3.1
1981	47,802	8.3	19,502	3.4
1982	48,654	8.4	19,531	3.4
1983	48,789	8.4	18,477	3.2
1984	50,302	8.7	17,123	3.0
1985	49,849	8.6	21,573	3.7
1986	49,990	8.6	19,809	3.4
1987	49,034	8.4	16,994	2.9
1988	49,941	8.5	17,676	3.0
1989	49,174	8.4	16,819	2.9
1990	47,786	7.9	16,258	2.7
1991	44,621	7.4	14,987	2.5
1992	43,228	7.1	15,411	2.5

**TABLE E-3  
MARRIAGES BY AGE AND MARITAL STATUS  
MASSACHUSETTS OCCURRENCE  
1992**

BRIDE								
Age	Total		Single		Widowed		Divorced	
	Number	%	Number	%	Number	%	Number	%
TOTAL	43,228	100.0	32,416	75.0	970	2.2	9,842	22.8
<20	1,596	100.0	1,592	99.7	0	**1	4	0.3
20-29	25,207	100.0	23,121	91.7	40	0.2	2,046	8.1
30-39	11,479	100.0	6,862	59.8	163	1.4	4,454	38.8
40-49	3,471	100.0	723	20.8	217	6.3	2,531	72.9
50-59	957	100.0	84	8.8	209	21.8	664	69.4
60-69	377	100.0	26	6.9	228	60.5	123	32.6
≥70	141	100.0	8	5.7	113	80.1	20	14.2
GROOM								
Age	Total		Single		Widowed		Divorced	
	Number	%	Number	%	Number	%	Number	%
TOTAL	43,228	100.0	32,077	74.2	998	2.3	10,153	23.5
<20	550	100.0	548	99.6	1	0.2	1	0.2
20-29	21,942	100.0	20,876	95.1	12	0.1	1,054	4.8
30-39	13,806	100.0	9,386	68.0	67	0.5	4,353	31.5
40-49	4,371	100.0	1,085	24.8	139	3.2	3,147	72.0
50-59	1,499	100.0	127	8.5	197	13.1	1,175	78.4
60-69	726	100.0	44	6.1	323	44.5	359	49.4
≥70	334	100.0	11	3.3	259	77.5	64	19.2

<sup>1</sup> Percentages less than 0.1 are excluded.

**TABLE E-4**  
**NUMBER OF MARRIAGES BY AGE OF BRIDE AND AGE OF GROOM**  
**MASSACHUSETTS OCCURRENCE**  
**1992**

AGE OF GROOM								
AGE OF BRIDE	TOTAL	<20	20-29	30-39	40-49	50-59	60-69	≥70
TOTAL	43,228	550	21,942	13,806	4,371	1,499	726	334
<20	1,596	341	1,167	82	5	1	0	0
20-29	25,207	196	18,292	6,162	504	49	4	0
30-39	11,479	13	2,311	6,695	2,129	286	38	7
40-49	3,471	0	162	827	1,553	743	162	24
50-59	957	0	10	39	177	385	296	50
60-69	377	0	0	1	3	34	206	133
≥70	141	0	0	0	0	1	20	120

**TABLE E-5**  
**NUMBER OF MARRIAGES FOR BRIDE BY NUMBER OF MARRIAGES FOR GROOM**  
**MASSACHUSETTS OCCURRENCE**  
**1992**

NUMBER OF MARRIAGES						
BRIDE	GROOM					
	TOTAL	1	2	3	4	≥5
TOTAL	43,228	32,078	9,434	1,539	163	14
1	32,417	27,585	4,336	462	31	3
2	9,156	4,039	4,256	763	91	7
3	1,469	403	762	273	27	4
4	159	45	70	35	9	0
≥5	27	6	10	6	5	0



# ***POPULATION***



## SECTION F

### POPULATION

The population data in this section are presented for use in computing rates for small areas and for reporting changes over time by municipality and county. They are based primarily on the U.S. Federal Census for 1990.

Prior to 1985, the Massachusetts State Census method of enumeration differed from the federal census. Generally, the state figures excluded non-resident students and military families residing in the Commonwealth; they are included in the U.S. Census definition of resident.

The Massachusetts population estimates for the years 1981-1989 (Table F-4) are calculated as linear interpolations from 1980 and 1990 U.S. Federal Census data. The 1992 population estimate is an interpolation of the 1990 U.S. Federal Census and MISER 1995 projections.

All additional interpolations and calculations have been provided by Robert A. Danley, Ph.D., Division of Research and Epidemiology, Bureau of Health Statistics, Research and Evaluation, Massachusetts Department of Public Health.

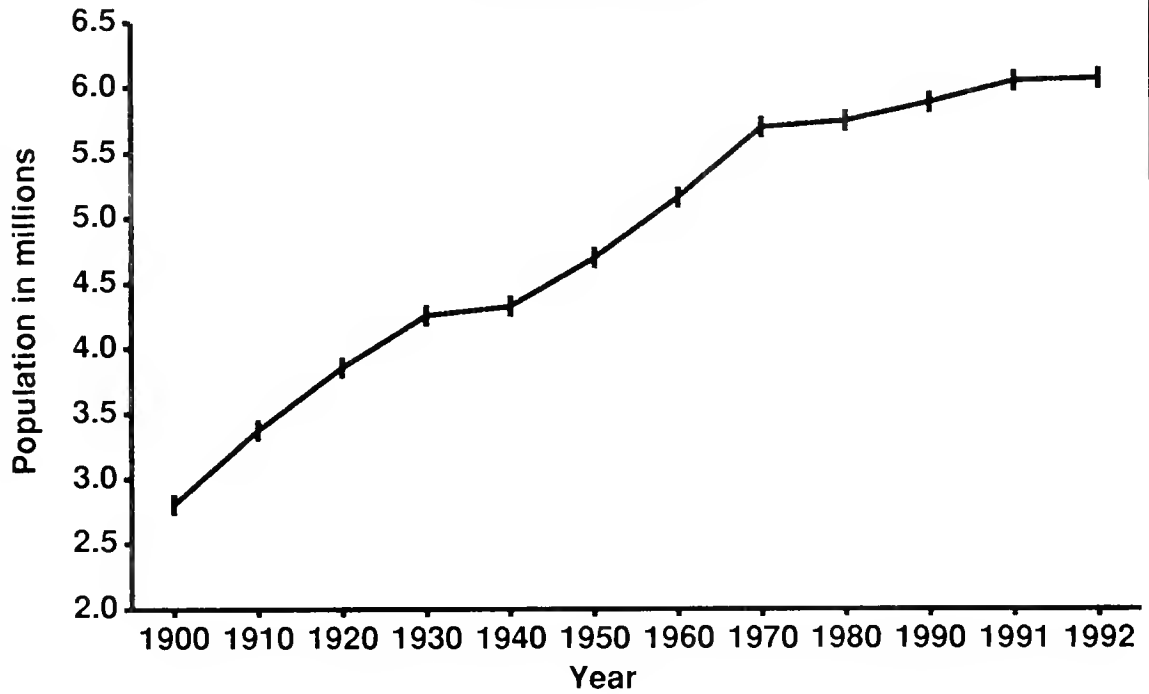
In 1992, there were an estimated 6,060,943 residents of Massachusetts. This represents a 4.6% increase since 1982, when the population numbered 5,792,914. Among the total 1992 population in Massachusetts, almost 48% were male, 25.8% were below the age of 20, and 6.2% were over 75 years of age.





Figure F-1

### Massachusetts Population 1900-1992



Note: 1981-1989, 1991 and 1992 are population estimates.

**TABLE F-1**  
**POPULATION BY RACE, AGE AND SEX**  
**MASSACHUSETTS**  
**1990<sup>1</sup>**

AGE	SEX	TOTAL	WHITE	BLACK	OTHER
UNDER 1	MALE	46,018	40,463	3,925	1,630
	FEMALE	44,125	38,546	3,926	1,653
	TOTAL	90,143	79,009	7,851	3,283
1-4	MALE	169,427	149,849	13,663	5,915
	FEMALE	161,779	142,349	13,489	5,941
	TOTAL	331,206	292,198	27,152	11,856
5-9	MALE	193,482	172,170	14,393	6,919
	FEMALE	183,137	162,336	14,104	6,697
	TOTAL	376,619	334,506	28,497	13,616
10-14	MALE	177,899	159,257	13,226	5,416
	FEMALE	169,117	150,743	12,916	5,458
	TOTAL	347,016	310,000	26,142	10,874
15-19	MALE	209,289	187,227	14,627	7,435
	FEMALE	206,741	184,529	14,595	7,617
	TOTAL	416,030	371,756	29,222	15,052
20-24	MALE	256,657	231,290	16,344	9,023
	FEMALE	260,537	234,182	17,002	9,353
	TOTAL	517,194	465,472	33,346	18,376
25-29	MALE	277,295	251,142	16,785	9,368
	FEMALE	279,025	252,738	17,311	8,976
	TOTAL	556,320	503,880	34,096	18,344
30-34	MALE	268,701	244,766	15,346	8,589
	FEMALE	273,629	249,299	15,867	8,463
	TOTAL	542,330	494,065	31,213	17,052
35-39	MALE	237,202	217,981	12,403	6,818
	FEMALE	243,972	223,847	13,153	6,972
	TOTAL	481,174	441,828	25,556	13,790
40-44	MALE	211,399	196,542	9,811	5,046
	FEMALE	221,975	206,029	10,619	5,327
	TOTAL	433,374	402,571	20,430	10,373
45-49	MALE	162,636	152,146	7,024	3,466
	FEMALE	170,698	159,100	8,211	3,387
	TOTAL	333,334	311,246	15,235	6,853

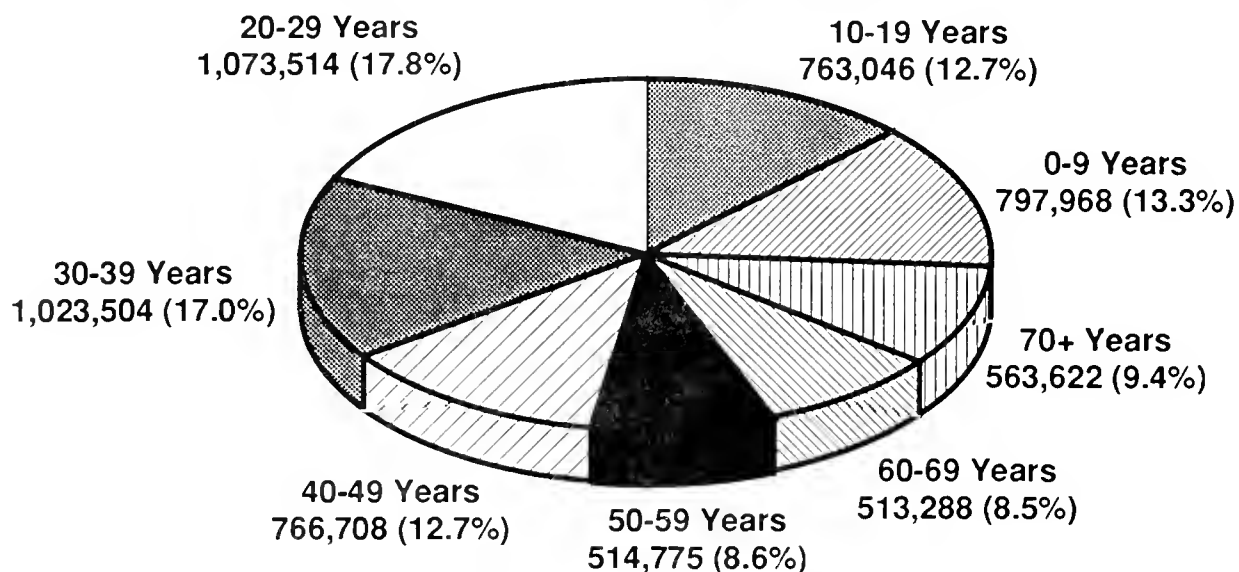
<sup>1</sup> Figures are from the 1990 US Census.

**TABLE F-1 (continued)**  
**POPULATION BY RACE, AGE AND SEX**  
**MASSACHUSETTS**  
**1990**

AGE	SEX	TOTAL	WHITE	BLACK	OTHER
<b>50-54</b>	<b>MALE</b>	126,581	118,555	5,246	2,780
	<b>FEMALE</b>	136,020	127,187	6,274	2,559
	<b>TOTAL</b>	262,601	245,742	11,520	5,339
<b>55-59</b>	<b>MALE</b>	120,175	113,887	4,238	2,050
	<b>FEMALE</b>	131,999	124,575	5,263	2,161
	<b>TOTAL</b>	252,174	238,462	9,501	4,211
<b>60-64</b>	<b>MALE</b>	121,609	116,299	3,762	1,548
	<b>FEMALE</b>	140,296	133,558	4,844	1,894
	<b>TOTAL</b>	261,905	249,857	8,606	3,442
<b>65-69</b>	<b>MALE</b>	110,424	106,135	3,064	1,225
	<b>FEMALE</b>	140,959	135,442	4,083	1,434
	<b>TOTAL</b>	251,383	241,577	7,147	2,659
<b>70-74</b>	<b>MALE</b>	85,541	82,863	1,965	713
	<b>FEMALE</b>	121,790	117,883	2,973	934
	<b>TOTAL</b>	207,331	200,746	4,938	1,647
<b>75-79</b>	<b>MALE</b>	59,037	57,350	1,199	488
	<b>FEMALE</b>	100,616	97,776	2,156	684
	<b>TOTAL</b>	159,653	155,126	3,355	1,172
<b>80-84</b>	<b>MALE</b>	33,468	32,561	669	238
	<b>FEMALE</b>	72,831	71,105	1,338	388
	<b>TOTAL</b>	106,299	103,666	2,007	626
<b>≥ 85</b>	<b>MALE</b>	21,905	21,324	439	142
	<b>FEMALE</b>	68,434	66,965	1,187	282
	<b>TOTAL</b>	90,339	88,289	1,626	424
<b>TOTAL</b>	<b>MALE</b>	2,888,745	2,651,807	158,129	78,809
	<b>FEMALE</b>	3,127,680	2,878,189	169,311	80,180
	<b>TOTAL</b>	6,016,425	5,529,996	327,440	158,989

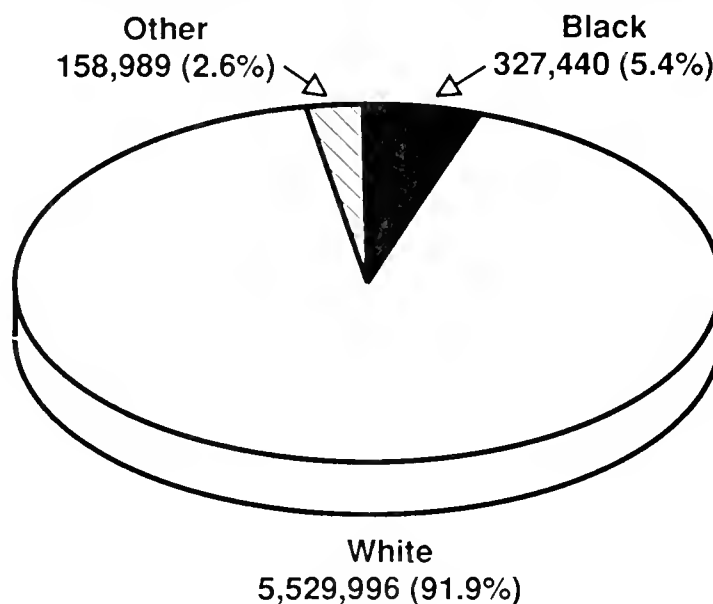
**Figure F-2**

**1990 Massachusetts Population by Age**



**Figure F-3**

**1990 Massachusetts Population by Race**



**TABLE F-2**  
**MASSACHUSETTS POPULATION BY COUNTY**  
**1960-1990**

	Federal 1960	State 1965 <sup>1</sup>	Federal 1970	State 1975 <sup>2</sup>	Federal 1980	State 1985 <sup>3</sup>	Federal 1990 <sup>4</sup>
<b>STATE</b>	<b>5,148,578</b>	<b>5,418,878</b>	<b>5,689,170</b>	<b>5,713,107</b>	<b>5,737,037</b>	<b>5,876,734</b>	<b>6,016,425</b>
<u><b>Counties</b></u>							
Barnstable	70,286	83,471	96,656	122,291	147,925	167,265	186,605
Berkshire	142,135	145,769	149,402	147,256	145,110	142,231	139,352
Bristol	398,488	421,395	444,301	459,471	474,641	490,483	506,325
Dukes	5,829	5,973	6,117	7,530	8,942	10,291	11,639
Essex	568,831	603,359	637,887	635,760	633,632	651,856	670,080
Franklin	54,864	57,037	59,210	61,764	64,317	67,205	70,092
Hampden	429,353	444,202	459,050	451,034	443,018	449,664	456,310
Hampshire	103,229	113,605	123,981	131,397	138,813	142,691	146,568
Middlesex	1,238,742	1,318,005	1,397,268	1,382,151	1,367,034	1,382,751	1,398,468
Nantucket	3,559	3,667	3,774	4,431	5,087	5,550	6,012
Norfolk	510,256	557,654	605,051	605,819	606,587	611,337	616,087
Plymouth	248,449	290,882	333,314	369,376	405,437	420,357	435,276
Suffolk	791,329	763,260	735,190	692,666	650,142	657,024	663,906
Worcester	583,228	610,599	637,969	642,161	646,352	678,029	709,705

<sup>1</sup> 1965 State Census figures are interpolations of the 1960 and 1970 US Census counts

<sup>2</sup> 1975 State Census figures are interpolations of the 1970 and 1980 US Census counts.

<sup>3</sup> 1985 State Census figures are interpolations of the 1980 and 1990 US Census counts

<sup>4</sup> Figures are from the 1990 US Census

**TABLE F-3  
MASSACHUSETTS POPULATION BY CITY AND TOWN  
1980 and 1990**

<u>City/Town</u>	<u>1980 US Census</u>	<u>1990 US Census</u>	<u>City/Town</u>	<u>1980 US Census</u>	<u>1990 US Census</u>
Abington	13,517	13,817	Dover	4,703	4,915
Acton	17,544	17,872	Dracut	21,249	25,594
Acushnet	8,704	9,554	Dudley	8,717	9,540
Adams	10,381	9,445	Dunstable	1,671	2,236
Agawam	26,271	27,323	Duxbury	11,807	13,895
Alford	394	418	East Bridgewater	9,945	11,104
Amesbury	13,971	14,997	East Brookfield	1,955	2,033
Amherst	33,229	35,228	East Longmeadow	12,905	13,367
Andover	26,370	29,151	Eastham	3,472	4,462
Arlington	48,219	44,630	Easthampton	15,580	15,537
Ashburnham	4,075	5,433	Easton	16,623	19,807
Ashby	2,311	2,717	Edgartown	2,204	3,062
Ashfield	1,458	1,715	Egremont	1,311	1,229
Ashland	9,165	12,066	Erving	1,326	1,372
Athol	10,634	11,451	Essex	2,998	3,260
Attleboro	34,196	38,383	Everett	37,195	35,701
Auburn	14,845	15,005	Fairhaven	15,759	16,132
Avon	5,026	4,558	Fall River	92,574	92,703
Ayer	6,993	6,871	Falmouth	23,640	27,960
Barnstable	30,898	40,949	Fitchburg	39,580	41,194
Barre	4,102	4,546	Florida	730	742
Becket	1,339	1,481	Foxborough	14,148	14,637
Bedford	13,067	12,996	Framingham	65,113	64,989
Belchertown	8,339	10,579	Franklin	18,217	22,095
Bellingham	14,300	14,877	Freetown	7,058	8,522
Belmont	26,100	24,720	Gardner	17,900	20,125
Berkley	2,731	4,237	Gay Head	220	201
Berlin	2,215	2,293	Georgetown	5,687	6,384
Bernardston	1,750	2,048	Gill	1,259	1,583
Beverly	37,655	38,195	Gloucester	27,768	28,716
Billerica	36,727	37,609	Goshen	651	830
Blackstone	6,570	8,023	Gosnold	63	98
Blandford	1,038	1,187	Grafton	11,238	13,035
Bolton	2,530	3,134	Granby	5,380	5,565
Boston	562,994	574,283	Granville	1,204	1,403
Bourne	13,874	16,064	Great Barrington	7,405	7,725
Boxborough	3,126	3,343	Greenfield	18,436	18,666
Boxford	5,374	6,266	Groton	6,154	7,511
Boylston	3,470	3,517	Groveland	5,040	5,214
Braintree	36,337	33,836	Hadley	4,125	4,231
Brewster	5,226	8,440	Halifax	5,513	6,526
Bridgewater	17,202	21,249	Hamilton	6,960	7,280
Brimfield	2,318	3,001	Hampden	4,745	4,709
Brockton	95,172	92,788	Hancock	643	628
Brookfield	2,397	2,968	Hanover	11,358	11,912
Brookline	55,062	54,718	Hanson	8,617	9,028
Buckland	1,864	1,928	Hardwick	2,272	2,385
Burlington	23,486	23,302	Harvard	12,170	12,329
Cambridge	95,322	95,802	Harwich	8,971	10,275
Canton	18,182	18,530	Hatfield	3,045	3,184
Carlisle	3,306	4,333	Haverhill	46,865	51,418
Carver	6,988	10,590	Hawley	280	317
Charlemont	1,149	1,249	Heath	482	716
Charlton	6,719	9,576	Hingham	20,339	19,821
Chatham	6,071	6,579	Hinsdale	1,707	1,959
Chelmsford	31,174	32,383	Holbrook	11,140	11,041
Chelsea	25,431	28,710	Holden	13,336	14,628
Cheshire	3,124	3,479	Holland	1,589	2,185
Chester	1,123	1,280	Holliston	12,622	12,926
Chesterfield	1,000	1,048	Holyoke	44,678	43,704
Chicopee	55,112	56,632	Hopedale	3,905	5,666
Chilmark	489	650	Hopkinton	7,114	9,191
Clarksburg	1,871	1,745	Hubbardston	1,797	2,797
Clinton	12,771	13,222	Hudson	16,408	17,233
Cohasset	7,174	7,075	Hull	9,714	10,466
Colrain	1,552	1,757	Huntington	1,804	1,987
Concord	16,293	17,076	Ipswich	11,158	11,873
Conway	1,213	1,529	Kingston	7,362	9,045
Cummington	657	785	Lakeville	5,931	7,785
Dalton	6,797	7,155	Lancaster	6,334	6,661
Danvers	24,100	24,174	Lanesborough	3,131	3,032
Dartmouth	23,966	27,244	Lawrence	63,175	70,207
Dedham	25,298	23,782	Lee	6,247	5,849
Deerfield	4,517	5,018	Leicester	9,446	10,191
Dennis	12,360	13,864	Lenox	6,523	5,069
Dighton	5,352	5,631	Leominster	34,508	38,145
Douglas	3,730	5,438	Leverett	1,471	1,785

**TABLE F-3 (continued)**  
**MASSACHUSETTS POPULATION BY CITY AND TOWN**  
**1980 and 1990**

<u>City/Town</u>	<u>1980 US Census</u>	<u>1990 US Census</u>	<u>City/Town</u>	<u>1980 US Census</u>	<u>1990 US Census</u>
Lexington	29,479	28,974	Pepperell	8,061	10,098
Leyden	498	662	Peru	633	779
Lincoln	7,098	7,666	Petersham	1,024	1,131
Littleton	6,970	7,051	Phillipston	953	1,485
Longmeadow	16,301	15,467	Pittsfield	51,974	48,622
Lowell	92,418	103,439	Plainfield	425	571
Ludlow	18,150	18,820	Plainville	5,857	6,871
Lunenburg	8,405	9,117	Plymouth	35,913	45,608
Lynn	78,471	81,245	Plympton	1,974	2,384
Lynnfield	11,267	11,274	Princeton	2,425	3,189
Malden	53,386	53,884	Provincetown	3,536	3,561
Manchester	5,424	5,286	Quincy	84,743	84,985
Mansfield	13,453	16,568	Randolph	28,218	30,093
Marblehead	20,126	19,971	Raynham	9,085	9,867
Marion	3,932	4,496	Reading	22,678	22,539
Marlborough	30,617	31,813	Rehoboth	7,570	8,656
Marshfield	20,916	21,531	Revere	42,423	42,786
Mashpee	3,700	7,884	Richmond	1,659	1,677
Mattapoisett	5,597	5,850	Rochester	3,205	3,921
Maynard	9,590	10,325	Rockland	15,695	16,123
Medfield	10,220	10,531	Rockport	6,345	7,482
Medford	58,076	57,407	Rowe	336	378
Medway	8,447	9,931	Rowley	3,867	4,452
Melrose	30,055	28,150	Royalston	955	1,147
Mendon	3,108	4,010	Russell	1,570	1,594
Merrimac	4,451	5,166	Rutland	4,334	4,936
Methuen	36,701	39,990	Salem	38,220	38,091
Middleborough	16,404	17,867	Salisbury	5,973	6,882
Middlefield	385	392	Sandisfield	720	667
Middleton	4,135	4,921	Sandwich	8,727	15,489
Milford	23,390	25,355	Saugus	24,746	25,549
Milbury	11,808	12,228	Savoy	644	634
Millis	6,908	7,613	Scituate	17,317	16,786
Millville	1,693	2,236	Seekonk	12,269	13,046
Milton	25,860	25,725	Sharon	13,601	15,517
Monroe	179	115	Sheffield	2,743	2,910
Monson	7,315	7,776	Shelburne	2,002	2,012
Montague	8,011	8,316	Sherborn	4,049	3,989
Monterey	818	805	Shirley	5,124	6,118
Montgomery	637	759	Shrewsbury	22,674	24,146
Mount Washington	93	135	Shutesbury	1,049	1,561
Nahant	3,947	3,828	Somerset	18,813	17,655
Nantucket	5,087	6,012	Somerville	77,372	76,210
Natick	29,461	30,510	South Hadley	16,399	16,685
Needham	27,901	27,557	Southampton	4,137	4,478
New Ashford	159	192	Southborough	6,193	6,628
New Bedford	98,478	99,922	Southbridge	16,665	17,816
New Braintree	671	881	Southwick	7,382	7,667
New Marlborough	1,160	1,240	Spencer	10,774	11,645
New Salem	688	802	Springfield	152,319	156,983
Newbury	4,529	5,623	Sterling	5,440	6,481
Newburyport	15,900	16,317	Stockbridge	2,328	2,408
Newton	83,622	82,585	Stoneham	21,424	22,203
Norfolk	6,363	9,270	Stoughton	26,710	26,777
North Adams	18,063	16,797	Stow	5,144	5,328
North Andover	20,129	22,792	Sturbridge	5,976	7,775
North Attleboro	21,095	25,038	Sudbury	14,027	14,358
North Brookfield	4,150	4,708	Sunderland	2,929	3,399
North Reading	11,455	12,002	Sutton	5,855	6,824
Northampton	29,286	29,289	Swampscott	13,837	13,650
Northborough	10,568	11,929	Swansea	15,461	15,411
Northbridge	12,246	13,371	Taunton	45,001	49,832
Northfield	2,386	2,838	Templeton	6,070	6,438
Norton	12,690	14,265	Tewksbury	24,635	27,266
Norwell	9,182	9,279	Tisbury	2,972	3,120
Norwood	29,711	28,700	Tolland	235	289
Oak Bluffs	1,984	2,804	Topsfield	5,709	5,754
Oakham	994	1,503	Townsend	7,201	8,496
Orange	6,844	7,312	Truro	1,486	1,573
Orleans	5,306	5,838	Tyngsborough	5,683	8,642
Otis	963	1,073	Tyringham	344	369
Oxford	11,680	12,588	Upton	3,886	4,677
Palmer	11,389	12,054	Uxbridge	8,374	10,415
Paxton	3,762	4,047	Wakefield	24,895	24,825
Peabody	45,976	47,039	Wales	1,177	1,566
Pelham	1,112	1,373	Walpole	18,859	20,212
Pembroke	13,487	14,544	Waltham	58,200	57,878

**TABLE F-3 (continued)**  
**MASSACHUSETTS POPULATION BY CITY AND TOWN**  
**1980 and 1990**

<u>City/Town</u>	<u>1980 US Census</u>	<u>1990 US Census</u>
Ware	8,953	9,808
Wareham	18,457	19,232
Warren	3,777	4,437
Warwick	603	740
Washington	587	615
Watertown	34,384	33,284
Wayland	12,170	11,874
Webster	14,480	16,196
Wellesley	27,209	26,615
Wellfleet	2,209	2,493
Wendell	694	899
Wenham	3,897	4,212
West Boylston	6,204	6,611
West Bridgewater	6,359	6,389
West Brookfield	3,026	3,532
West Newbury	2,861	3,421
West Springfield	27,042	27,537
West Stockbridge	1,280	1,483
West Tisbury	1,010	1,704
Westborough	13,619	14,133
Westfield	36,465	38,372
Westford	13,434	16,392
Westhampton	1,137	1,327
Westminster	5,139	6,191
Weston	11,169	10,200
Westport	13,763	13,852
Westwood	13,212	12,557
Weymouth	55,601	54,063
Whately	1,341	1,375
Whitman	13,534	13,240
Wilbraham	12,053	12,635
Williamsburg	2,237	2,515
Williamstown	8,741	8,220
Wilmington	17,471	17,651
Winchendon	7,019	8,805
Winchester	20,701	20,267
Windsor	598	770
Winthrop	19,294	18,127
Woburn	36,626	35,943
Worcester	161,799	169,759
Worthington	932	1,156
Wrentham	7,580	9,006
Yarmouth	18,449	21,174
STATEWIDE TOTALS	5,737,037	6,016,425



**TABLE F-4  
POPULATION COUNTS AND ESTIMATES, MASSACHUSETTS  
1980-1992**

AGE GROUP	YEAR	TOTAL	MALE	FEMALE
0-4	1980	337,215	173,029	164,186
	1981	345,629	177,271	168,358
	1982	354,042	181,512	172,530
	1983	362,455	185,754	176,701
	1984	370,868	189,995	180,873
	1985	379,282	194,237	185,045
	1986	387,696	198,479	189,217
	1987	396,109	202,720	193,389
	1988	404,522	206,962	197,560
	1989	412,935	211,203	201,732
	1990	421,349	215,445	205,904
	1991	414,476	211,926	202,550
	1992	407,605	208,426	199,179
5-9	1980	374,734	191,602	183,132
	1981	374,923	191,790	183,133
	1982	375,111	191,978	183,133
	1983	375,300	192,166	183,134
	1984	375,488	192,354	183,134
	1985	375,677	192,542	183,135
	1986	375,865	192,730	183,135
	1987	376,054	192,918	183,136
	1988	376,242	193,106	183,136
	1989	376,431	193,294	183,137
	1990	376,619	193,482	183,137
	1991	377,918	194,157	183,761
	1992	379,195	194,814	184,381
10-14	1980	461,332	235,669	225,663
	1981	449,900	229,892	220,008
	1982	438,469	224,115	214,354
	1983	427,037	218,338	208,699
	1984	415,606	212,561	203,045
	1985	404,174	206,784	197,390
	1986	392,742	201,007	191,735
	1987	381,311	195,230	186,081
	1988	369,879	189,453	180,426
	1989	358,448	183,676	174,772
	1990	347,016	177,899	169,117
	1991	353,412	181,166	172,246
	1992	359,812	184,427	175,385
15-19	1980	548,239	274,859	273,380
	1981	535,018	268,302	266,716
	1982	521,797	261,745	260,052
	1983	508,576	255,188	253,388
	1984	495,355	248,631	246,724
	1985	482,135	242,074	240,061
	1986	468,914	235,517	233,397
	1987	455,693	228,960	226,733
	1988	442,472	222,403	220,069
	1989	429,251	215,846	213,405
	1990	416,030	209,289	206,741
	1991	415,428	209,079	206,349
	1992	414,832	208,856	205,976

**TABLE F-4 (continued)**  
**POPULATION COUNTS AND ESTIMATES, MASSACHUSETTS**  
**1980-1992**

AGE GROUP	YEAR	TOTAL	MALE	FEMALE
20-24	1980	552,902	270,713	282,189
	1981	549,331	269,307	280,024
	1982	545,761	267,902	277,859
	1983	542,189	266,496	275,693
	1984	538,619	265,091	273,528
	1985	535,048	263,685	271,363
	1986	531,477	262,279	269,198
	1987	527,907	260,874	267,033
	1988	524,335	259,468	264,867
	1989	520,765	258,063	262,702
	1990	517,194	256,657	260,537
	1991	504,121	250,187	253,934
	1992	491,037	243,714	247,323
25-29	1980	489,175	239,341	249,834
	1981	495,889	243,136	252,753
	1982	502,604	246,932	255,672
	1983	509,318	250,727	258,591
	1984	516,033	254,523	261,510
	1985	522,748	258,318	264,430
	1986	529,462	262,113	267,349
	1987	536,177	265,909	270,268
	1988	542,891	269,704	273,187
	1989	549,606	273,500	276,106
	1990	556,320	277,295	279,025
	1991	542,906	270,616	272,290
	1992	529,523	263,932	265,591
30-34	1980	446,395	217,649	228,746
	1981	455,988	222,754	233,234
	1982	465,582	227,859	237,723
	1983	475,176	232,965	242,211
	1984	484,769	238,070	246,699
	1985	494,363	243,175	251,188
	1986	503,956	248,280	255,676
	1987	513,549	253,385	260,164
	1988	523,143	258,491	264,652
	1989	532,737	263,596	269,141
	1990	542,330	268,701	273,629
	1991	537,086	266,041	271,045
	1992	531,846	263,383	268,463
35-39	1980	348,552	169,502	179,050
	1981	361,814	176,272	185,542
	1982	375,076	183,042	192,034
	1983	388,339	189,812	198,527
	1984	401,601	196,582	205,019
	1985	414,863	203,352	211,511
	1986	428,125	210,122	218,003
	1987	441,387	216,892	224,495
	1988	454,650	223,662	230,988
	1989	467,912	230,432	237,480
	1990	481,174	237,202	243,972
	1991	487,579	240,363	247,216
	1992	493,998	243,516	250,482

**TABLE F-4 (continued)**  
**POPULATION COUNTS AND ESTIMATES, MASSACHUSETTS**  
**1980-1992**

AGE GROUP	YEAR	TOTAL	MALE	FEMALE
40-44	1980	278,748	134,925	143,823
	1981	294,210	142,572	151,638
	1982	309,673	150,220	159,453
	1983	325,136	157,867	167,269
	1984	340,599	165,515	175,084
	1985	356,061	173,162	182,899
	1986	371,523	180,809	190,714
	1987	386,986	188,457	198,529
	1988	402,449	196,104	206,345
	1989	417,912	203,752	214,160
	1990	433,374	211,399	221,975
	1991	443,742	216,488	227,254
	1992	454,118	221,573	232,545
45-49	1980	278,261	134,444	143,817
	1981	283,768	137,263	146,505
	1982	289,275	140,082	149,193
	1983	294,783	142,902	151,881
	1984	300,290	145,721	154,569
	1985	305,798	148,540	157,258
	1986	311,305	151,359	159,946
	1987	316,812	154,178	162,634
	1988	322,320	156,998	165,322
	1989	327,827	159,817	168,010
	1990	333,334	162,636	170,698
	1991	345,718	168,718	177,000
	1992	358,097	174,792	183,305
50-54	1980	306,574	146,211	160,363
	1981	302,177	144,248	157,929
	1982	297,779	142,285	155,494
	1983	293,382	140,322	153,060
	1984	288,985	138,359	150,626
	1985	284,588	136,396	148,192
	1986	280,190	134,433	145,757
	1987	275,793	132,470	143,323
	1988	271,396	130,507	140,889
	1989	266,998	128,544	138,454
	1990	262,601	126,581	136,020
	1991	277,035	133,625	143,410
	1992	291,457	140,648	150,809
55-59	1980	310,995	145,603	165,392
	1981	305,113	143,060	162,053
	1982	299,230	140,517	158,713
	1983	293,349	137,975	155,374
	1984	287,467	135,432	152,035
	1985	281,585	132,889	148,696
	1986	275,702	130,346	145,356
	1987	269,820	127,803	142,017
	1988	263,939	125,261	138,678
	1989	258,056	122,718	135,338
	1990	252,174	120,175	131,999
	1991	258,415	123,216	135,199
	1992	264,664	126,264	138,400

**TABLE F-4 (continued)**  
**POPULATION COUNTS AND ESTIMATES, MASSACHUSETTS**  
**1980-1992**

AGE GROUP	YEAR	TOTAL	MALE	FEMALE
60-64	1980	277,384	126,323	151,061
	1981	275,837	125,852	149,985
	1982	274,288	125,380	148,908
	1983	272,741	124,909	147,832
	1984	271,192	124,437	146,755
	1985	269,645	123,966	145,679
	1986	268,097	123,495	144,602
	1987	266,549	123,023	143,526
	1988	265,001	122,552	142,449
	1989	263,453	122,080	141,373
	1990	261,905	121,609	140,296
	1991	259,702	120,630	139,072
	1992	257,490	119,652	137,838
65-69	1980	235,574	101,023	134,551
	1981	237,155	101,963	135,192
	1982	238,736	102,903	135,833
	1983	240,316	103,843	136,473
	1984	241,897	104,783	137,114
	1985	243,479	105,724	137,755
	1986	245,060	106,664	138,396
	1987	246,641	107,604	139,037
	1988	248,221	108,544	139,677
	1989	249,802	109,484	140,318
	1990	251,383	110,424	140,959
	1991	248,181	109,072	139,109
	1992	244,981	107,708	137,273
70-74	1980	187,041	73,235	113,806
	1981	189,070	74,466	114,604
	1982	191,099	75,696	115,403
	1983	193,128	76,927	116,201
	1984	195,157	78,157	117,000
	1985	197,186	79,388	117,798
	1986	199,215	80,619	118,596
	1987	201,244	81,849	119,395
	1988	203,273	83,080	120,193
	1989	205,302	84,310	120,992
	1990	207,331	85,541	121,790
	1991	208,014	85,869	122,145
	1992	208,703	86,208	122,495
75-79	1980	137,828	48,145	89,683
	1981	140,010	49,234	90,776
	1982	142,193	50,323	91,870
	1983	144,376	51,413	92,963
	1984	146,558	52,502	94,056
	1985	148,741	53,591	95,150
	1986	150,923	54,680	96,243
	1987	153,105	55,769	97,336
	1988	155,288	56,859	98,429
	1989	157,471	57,948	99,523
	1990	159,653	59,037	100,616
	1991	162,139	59,983	102,156
	1992	164,614	60,933	103,681

**TABLE F-4 (continued)**  
**POPULATION COUNTS AND ESTIMATES, MASSACHUSETTS**  
**1980-1992**


AGE GROUP	YEAR	TOTAL	MALE	FEMALE
80-84	1980	92,180	28,513	63,667
	1981	93,592	29,009	64,583
	1982	95,004	29,504	65,500
	1983	96,416	30,000	66,416
	1984	97,828	30,495	67,333
	1985	99,240	30,991	68,249
	1986	100,651	31,486	69,165
	1987	102,064	31,982	70,082
	1988	103,475	32,477	70,998
	1989	104,888	32,973	71,915
	1990	106,299	33,468	72,831
	1991	108,378	34,156	74,222
	1992	110,457	34,867	75,590
≥ 85	1980	73,908	20,107	53,801
	1981	75,551	20,287	55,264
	1982	77,195	20,467	56,728
	1983	78,837	20,646	58,191
	1984	80,480	20,826	59,654
	1985	82,124	21,006	61,118
	1986	83,767	21,186	62,581
	1987	85,410	21,366	64,044
	1988	87,052	21,545	65,507
	1989	88,696	21,725	66,971
	1990	90,339	21,905	68,434
	1991	94,434	22,982	71,452
	1992	98,514	24,044	74,470
TOTAL	1980	5,737,037	2,730,893	3,006,144
	1981	5,764,975	2,746,678	3,018,297
	1982	5,792,914	2,762,462	3,030,452
	1983	5,820,854	2,778,250	3,042,604
	1984	5,848,792	2,794,034	3,054,758
	1985	5,876,737	2,809,820	3,066,917
	1986	5,904,670	2,825,604	3,079,066
	1987	5,932,611	2,841,389	3,091,222
	1988	5,960,548	2,857,176	3,103,372
	1989	5,988,490	2,872,961	3,115,529
	1990	6,016,425	2,888,745	3,127,680
	1991	6,038,684	2,898,274	3,140,410
	1992	6,060,943	2,907,757	3,153,186



# ***APPENDICES***





1 RECORD NUMBER		<b>C</b>		3C COUNTY				3D CITY/TOWN MAKING RETURN					
		<b>H</b>		3B CITY/TOWN				3E REGISTERED NUMBER					
1A CERTIFICATE NUMBER (DPH USE ONLY)		<b>I</b>		3A FACILITY NAME—IF NOT IN FACILITY NUMBER AND STREET									
		<b>L</b>		NAME		4A FIRST		4B MIDDLE		4C LAST			
2 FACILITY NUMBER		<b>D</b>		5 SEX		6A PLURALITY (Specify Single, Twin, etc.)		6B BIRTH ORDER (if not single Specify Order, First, Second, etc.)		7 TIME M			
<b>1 OCCURRENCE</b>  FORM R-3 (3/00M/7/90) R151 <b>CERTIFIER</b>  <b>MOTHER</b>  <b>FATHER</b>  <b>INFORMANT</b>  <b>CLERK</b>		<b>C</b>		9A SIGNATURE (I Certify that the Child was Born Alive at Date and Time and Place Stated.)						9C LICENSE NUMBER			
		<b>E</b>		9D NO. & STREET						9E CITY/TOWN		9F STATE	
		<b>R</b>		9G ZIP CODE						9H DATE SIGNED (Month, Day, Year)			
		<b>I</b>		9I TYPE <input type="checkbox"/> AT-BIRTH <input type="checkbox"/> POST-NATAL <input type="checkbox"/> CENSUS/REG. <input type="checkbox"/> MD/DO <input type="checkbox"/> CNM <input type="checkbox"/> OTH. RN <input type="checkbox"/> MIDWIFE <input type="checkbox"/> OTHER									
		<b>F</b>		NAME						10A FIRST		10B MIDDLE	
		<b>A</b>		10C LAST						10D MAIDEN SURNAME			
		<b>T</b>		BIRTHPLACE						11A CITY/TOWN		11B STATE/COUNTRY	
		<b>H</b>		RESIDENCE (Do not use mailing address)						13A NUMBER AND STREET		13B CITY/TOWN	
		<b>E</b>		13C COUNTY						13D STATE		13E ZIP CODE	
		<b>R</b>		NAME						14A FIRST		14B MIDDLE	
		14C LAST						14D MAIDEN SURNAME					
22A SOCIAL SECURITY CARD		<b>I</b>		17A I (WE) CERTIFY THAT THE PERSONAL INFORMATION APPEARING ABOVE IS TRUE AND CORRECT						17B RELATIONSHIP TO CHILD			
<input type="checkbox"/> YES		<b>N</b>		17C DATE SIGNED (Month, Day, Year)						17D MAILING ADDRESS (if different from item # 1,3 above)			
22B RESIDENT COPY		<b>F</b>		NUMBER AND STREET						CITY			
		<b>A</b>		STATE						ZIP CODE			
<input type="checkbox"/> YES		<b>C</b>		18 DATE OF RECORD (Month, Day, Year)						19 SUPPLEMENT FILED (Month, Day, Year)			
INITIALS		<b>L</b>		20 CLERK/REGISTRAR									
		<b>E</b>		21 CLERK/REGISTRAR DPH USE ONLY									

23A OCCUPATION PAST YEAR		23B INDUSTRY PAST YEAR		24A RACE <input type="checkbox"/> White <input type="checkbox"/> Black <input type="checkbox"/> Asian <input type="checkbox"/> Amer Indian <input type="checkbox"/> Other (Specify)		24B ANCESTRY		25 EDUCATION A. Elem./Sec. (0-12)      B. College (0-4,5+)	
26A OCCUPATION PAST YEAR		26B INDUSTRY PAST YEAR		27A RACE <input type="checkbox"/> White <input type="checkbox"/> Black <input type="checkbox"/> Asian <input type="checkbox"/> Amer Indian <input type="checkbox"/> Other (Specify)		27B ANCESTRY		28 EDUCATION A. Elem./Sec. (0-12)      B. College (0-4,5+)	

29 PRIOR LIVE BIRTHS A. NOW LIVING # <input type="checkbox"/> NONE		B. BORN LIVE-NOW DEAD # <input type="checkbox"/> NONE		C. DATE OF LAST LIVE BIRTH (Month, Day, Year)		30 TERMINATIONS <input type="checkbox"/> NONE		DATE LAST TERMINATION (Month, Day, Year)		31A. DATE LAST MENSES BEGAN (Month, Day, Year)	
31B CLINICAL EST GEST WEEKS		32 MONTH OF PREG. PRENATAL CARE BEGAN (First, Second, etc.)		33 TOTAL NUMBER PRENATAL VISITS # <input type="checkbox"/> NONE		34 WEIGHT GAINED DURING PREG LBS		35A. TYPE OF PRACTITIONER PROVIDING PRENATAL CARE: <input type="checkbox"/> MD/DO <input type="checkbox"/> PA <input type="checkbox"/> NP <input type="checkbox"/> CNM <input type="checkbox"/> OTHER RN <input type="checkbox"/> MIDWIFE <input type="checkbox"/> OTHER (Specify)		35B. SITE OF PRENATAL CARE <input type="checkbox"/> PRIVATE <input type="checkbox"/> HOSP CLINIC <input type="checkbox"/> HMO <input type="checkbox"/> CHC <input type="checkbox"/> Other (Specify)	
		35C PRENATAL CARE METHOD OF PAYMENT <input type="checkbox"/> BLUE CROSS <input type="checkbox"/> COMM INS. <input type="checkbox"/> HMO <input type="checkbox"/> MEDICAID <input type="checkbox"/> MEDICARE <input type="checkbox"/> HEALTHY START <input type="checkbox"/> OTHER GOVT <input type="checkbox"/> WORK COMP <input type="checkbox"/> SELF-PAY <input type="checkbox"/> FREE CARE <input type="checkbox"/> OTHER (Spec.)				36A ALCOHOL		36B TOBACCO			

37 METHOD OF DELIVERY <input type="checkbox"/> VAGINAL <input type="checkbox"/> VAGINAL AFTER <input type="checkbox"/> PRIMARY <input type="checkbox"/> REPEAT <input type="checkbox"/> C-SECTION <input type="checkbox"/> C-SECTION <input type="checkbox"/> FORCEPS <input type="checkbox"/> VACUUM						38 COMPLICATIONS OF LABOR (Separate by commas—include up to 10 items) AND DELIVERY					
39 OBSTETRIC PROCEDURES (Separate by commas—include up to 10 items)						40 BIRTHWEIGHT LBS      OZ      OR GRAMS			41 APGAR SCORE (0-10) A. 1 Minute      B. 5 Minute		
42 DELIVERY PAYMENT <input type="checkbox"/> BLUE CROSS <input type="checkbox"/> COMM <input type="checkbox"/> HMO <input type="checkbox"/> MEDICAID <input type="checkbox"/> MEDICARE <input type="checkbox"/> HEALTHY ST <input type="checkbox"/> OTHER GOVT <input type="checkbox"/> WORK COMP. <input type="checkbox"/> SELF-PAY <input type="checkbox"/> FREE CARE <input type="checkbox"/> OTHER (Spec.)						43 MARRIED? <input type="checkbox"/> YES <input type="checkbox"/> NO			44 CONGENITAL ANOMALIES (Include up to 5 items)		
45 ABNORMAL CONDITIONS OF NEWBORN (Include up to 5 items)						46 CHILD IS <input type="checkbox"/> LIVING <input type="checkbox"/> DEAD			47 BREASTFEEDING? <input type="checkbox"/> YES <input type="checkbox"/> NO		
48 MOTHER TRANSFERRED PRIOR TO DELIVERY? <input type="checkbox"/> NO <input type="checkbox"/> YES FROM						49 INFANT TRANSFERRED? <input type="checkbox"/> NO <input type="checkbox"/> YES TO:			50a MOTHER'S SOCIAL SECURITY NUMBER		
									50b FATHER'S SOCIAL SECURITY NUMBER		

Detach and Return to Department of Public Health — Registry of Vital Records and Statistics,  
150 Tremont Street, Room B-3, Boston, MA 02111

[INSTRUCTIONS ON REVERSE SIDE]  
FOR USE BY  
PHYSICIANS AND  
MEDICAL EXAMINERS



# The Commonwealth of Massachusetts

STANDARD CERTIFICATE OF DEATH  
REGISTRY OF VITAL RECORDS AND STATISTICS

REGISTERED NUMBER

STATE USE ONLY

STATE USE ONLY
1a PLACE
4c HOSP
5 TYPE
7 VET
8 HISP RACE
9 EDUC
10 AGE
11 NATIVITY
12 MARITAL
15 RESID
15 OUT-STATE
23 DISP
31-32 AUTOP
33 MED EXAM
34 MANNER
35C WORK INJ
35F PLACE
36-37 CERT
40A RN PRO

## DECEDENT

## INFORMANT

## DISPOSITION

## CERTIFIER

DECEDENT - NAME FIRST MIDDLE LAST		SEX	DATE OF DEATH (Mo., Day, Yr.)
1 PLACE OF DEATH (City/Town)		2	3
4a		4b	
4c		4d	
PLACE OF DEATH (Check only one)		SOCIAL SECURITY NUMBER	
HOSPITAL <input type="checkbox"/> Inpatient <input type="checkbox"/> ERI/Outpatient <input type="checkbox"/> DOA <input type="checkbox"/> OTHER <input type="checkbox"/> Nursing Home <input type="checkbox"/> Residence <input type="checkbox"/> Other (Specify)		IF US WAR VETERAN SPECIFY WAR	
5		6	
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BLACK INK ONLY

R-301-89

# The Commonwealth of Massachusetts

DEPARTMENT OF PUBLIC HEALTH  
REGISTRY OF VITAL RECORDS AND STATISTICS

## REPORT OF FETAL DEATH

STATE FILE NUMBER

1a HOSPITAL - NAME (if not in hospital, give street and number)				1b CITY, TOWN OR LOCATION OF DELIVERY				1c COUNTY OF DELIVERY																																																																							
2a DATE OF DELIVERY (Month, Day, Year)				7b HOUR OF DELIVERY				SEX OF FETUS				WEIGHT OF FETUS																																																																			
MOTHER - MAIDEN NAME FIRST MIDDLE LAST								5b AGE (at time of this delivery)				6a RESIDENCE - STATE				6b COUNTY																																																															
5a CITY, TOWN OR LOCATION								5b STREET AND NUMBER								PREGNANCY HISTORY (Complete each section)																																																															
6c RACE - (e.g., White, Black, American Indian, etc.) (Specify)								6d EDUCATION (Specify only highest grade completed) (Elementary or Secondary 10-12) College 11, 4 or 5								6e DATE LAST NORMAL MENSTRUATION (Month, Day, Year)								6f IS MOTHER MARRIED? (Specify yes or no)																																																							
7 MONTH OF PREGNANCY PRENATAL CARE BEGAN First, second, etc. (Specify)								8 PRENATAL VISITS - Total number (If none so state)								9 TIME OF BIRTH (Single, twinning, etc. (Specify))								10 IF NOT SINGLE BIRTH - Born first, second, third, etc. (Specify)								11a Now living 11b Now dead								11c OTHER TERMINATIONS (Spontaneous and induced) 11d Before 20 weeks 11e After 20 weeks																																							
12a FATHER - NAME FIRST MIDDLE LAST								12b AGE (at time of this delivery)								12c RACE - (e.g., White, Black, American Indian, etc.) (Specify)								12d EDUCATION (Specify only highest grade completed) Elementary or Secondary 10-12 College 11, 4 or 5																																																							
15 PART I IMMEDIATE CAUSE (ENTER ONLY ONE CAUSE PER LINE FOR (a), (b), AND (c))																Specify Fetal or Maternal																																																															
(a) DUE TO, OR AS A CONSEQUENCE OF																Specify Fetal or Maternal																																																															
(b) DUE TO, OR AS A CONSEQUENCE OF																Specify Fetal or Maternal																																																															
(c) DUE TO, OR AS A CONSEQUENCE OF																Specify Fetal or Maternal																																																															
16 PART II OTHER SIGNIFICANT CONDITIONS OF FETUS OR MOTHER Conditions contributing to fetal death but not related to cause given in (a)																17 FETUS DIED BEFORE LABOR DURING LABOR OR DELIVERY UNKNOWN (Specify)																18 PHYSICIAN ESTIMATE OF GESTATION																19 AUTOPSY (Specify yes or no)																															
20 COMPLICATIONS OF PREGNANCY (Describe or write none)																21 COMPLICATIONS OF LABOR AND/OR DELIVERY (Describe or write none)																22 CONCURRENT ILLNESSES OR CONDITIONS AFFECTING THE PREGNANCY (Describe or write none)																23 CONGENITAL MALFORMATIONS OR ANOMALIES OF FETUS (Describe or write none)																															
24 NAME OF PHYSICIAN OR ATTENDANT (Type or print)																25 NAME OF PERSON COMPLETING REPORT (Type or print)																26 TITLE																																															
27 BURIAL, CREMATION, OR BY HOSPITAL																28 CEMETERY OR CREMATORY - NAME OR WRITE "NONE"																29 LOCATION																30 CITY OR TOWN																31 STATE															
32 NAME OF FUNERAL DIRECTOR (IF ANY)																33 NAME OF FACILITY (Hospital or Funeral Home)																34 ADDRESS OF FACILITY																																															
35 I HEREBY CERTIFY that this delivery occurred on the date stated and product of conception was not a live birth.																																																																															
36 Signature of Attending Physician or Medical Examiner																																																																															
37 TITLE																																																																															

### DEFINITION:

"Fetal death" per chapter 111 section 202 of the M.G.L. means death prior to the complete expulsion or extraction from its mother of a fetus, irrespective of the duration of pregnancy, as indicated by the fact that after such expulsion or extraction the fetus does not breathe or show any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. A fetal death does NOT include an induced abortion as defined in section 12K of chapter 112 of M.G.L. . Spontaneous abortions are to be included.

### TO BE REPORTED:

Only fetal deaths of twenty weeks or more gestation or of a weight of 350 grams or more are to be reported.

### INSTRUCTIONS:

Return completed reported within 10 days to the Registry of Vital Records and Statistics, Rm.



## The Commonwealth of Massachusetts

DEPARTMENT OF PUBLIC HEALTH  
REGISTRY OF VITAL RECORDS AND STATISTICS

(State file number)

## CERTIFICATE OF MARRIAGE

(City or town making return)

This certificate must be delivered to the person before whom the marriage is to be contracted before he proceeds to solemnize the same

1 Place of Marriage

Registered No. \_\_\_\_\_

City or Town \_\_\_\_\_

2 Date of Marriage \_\_\_\_\_

Intention No. \_\_\_\_\_

(Do not enter name of village or section of city or town)

(Month) (Day) (Year)

3 FULL NAME

GROOM

12 FULL NAME

BRIDE

3A SURNAME  
AFTER MARRIAGE12A SURNAME  
AFTER MARRIAGE

4 DATE OF BIRTH

5 OCCUPATION

13 DATE OF BIRTH

14 OCCUPATION

6 RESIDENCE  
NO. & ST  
CITY/  
TOWN15 RESIDENCE  
NO. & ST  
CITY/  
TOWNZIP  
CODE7 NUMBER OF  
MARRIAGE  
(1st, 2nd, 3rd, etc.)WIDOWED  
OR DIVORCED16 NUMBER OF  
MARRIAGE  
(1st, 2nd, 3rd, etc.)WIDOWED  
OR DIVORCED

9 BIRTHPLACE

18 BIRTHPLACE

(City or town)

(State or country)

(City or town)

(State or country)

10 MAIDEN NAME  
OF MOTHER19 MAIDEN NAME  
OF MOTHER11 NAME OF  
FATHER20 NAME OF  
FATHER

21 THE INTENTION OF MARRIAGE by the above-mentioned persons was duly entered by me in the records of the Community of \_\_\_\_\_

\_\_\_\_\_ according to law, this \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_

(Name of Community)

☐ COURT WAIVER Issued \_\_\_\_\_

(Month)

(Day)

(Year)

by \_\_\_\_\_

(City or Town Clerk or Registrar)

☐ AGE ORDER

22 I HEREBY CERTIFY that I joined the above-named persons in marriage at No. \_\_\_\_\_

(If marriage was solemnized in a church, give its NAME instead of street and number)

(Name of city or town)

on \_\_\_\_\_

(Month)

(Day)

(Year)

Signature \_\_\_\_\_

Official station \_\_\_\_\_

(Minister of the Gospel, Clergyman, Priest, Rabbi, or Justice of the Peace)

(Print or type name)

Residence No. \_\_\_\_\_

St., City or Town of \_\_\_\_\_

23 Certificate recorded by city or town clerk \_\_\_\_\_

(Month)

(Day)

(Year)

CLERK OR REGISTRAR

THIS CERTIFICATE IS  
NOT TO BE USED  
OUTSIDE OF  
MASSACHUSETTS.  
NOT VALID AFTER:

THIS IS A PERMANENT RECORD.  
Use only durable black ink or approved  
black typewriter ribbon. Every item of  
information should be carefully supplied.  
ALTERATIONS AND ERASURES IN  
THIS CERTIFICATE ARE FORBID-  
DEN; PENALTY FOR VIOLATION,  
ONE HUNDRED DOLLARS.

REG. CHAP. 207, §§ 28, 28A, 48, 49,  
51, 57 and CHAP. 46, § 18.

☐ MEDICAL  
CERTIFICATES  
ON FILE

☐ COMMISSION  
ON FILE

The Commonwealth of Massachusetts  
DEPARTMENT OF PUBLIC HEALTH  
REGISTRY OF VITAL RECORDS AND STATISTICS  
CERTIFICATE OF ABSOLUTE  
DIVORCE OR ANNULMENT  
(Chap. 208, Sec. 46 G.L.)

R-408

HUSBAND NAME		FIRST	MIDDLE	LAST
USUAL RESIDENCE STREET ADDRESS		CITY TOWN OR LOCATION		
2a		2b		
COUNTY	STATE	DATE OF BIRTH (Mo Day Yr)		NUMBER OF THIS MARRIAGE (1st, 2nd, Specify)
2c	2d	4		
WIFE NAME		FIRST	MIDDLE	LAST
5a		5b		
USUAL RESIDENCE STREET ADDRESS		CITY TOWN OR LOCATION		
6a		6b		
COUNTY	STATE	DATE OF BIRTH (Mo Day Yr)		NUMBER OF THIS MARRIAGE (1st, 2nd, Specify)
6c	6d	7		8
DATE OF THIS MARRIAGE (Mo Day Yr)	NUMBER OF CHILDREN BORN ALIVE OF THIS MARRIAGE		NUMBER OF CHILDREN UNDER AGE 18 IN THIS FAMILY	
9	10a		10b	

FOR COURT USE ONLY			
COUNTY OF JUDGMENT		TITLE OF COURT	
11		12	
DATE OF JUDGMENT NISI (Mo Day Yr)	TYPE OF JUDGMENT DIVORCE OR ANNULMENT (Specify)		DATE OF JUDGMENT ABSOLUTE (Mo Day Yr)
12	13		14
DOCKET NUMBER	NAME OF PLAINTIFF	CAUSE FOR WHICH GRANTED	
15	16	17	
SIGNATURE OF CERTIFYING OFFICIAL		TITLE OF OFFICIAL	
18a		18b	



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